

Appendix B – Lamprey Water Quality Data

LAMPREY RIVER BASELINE FISH SAMPLING
AUGUST 25-29, 2003

Lamprey Historical and BFC Water Quality

Attachments

B-1 - Lamprey BFC Water Quality Result by Station

B-2 – USGS Water Quality Data at Lamprey Stream Gage

B-3 - NHDES Ambient Rivers Program Water Quality Data

LAMPREY HISTORICAL AND BFC WATER QUALITY

Historical USGS water quality data

USGS collected water quality measurements at their USGS 01073500 LAMPREY RIVER NEAR NEWMARKET, NH gage. Conductivity measurements are the only parameter except temperature collected consistently by USGS (Attachment B-2). Conductivity measurements were first recorded in 1953 and 1954, but were taken regularly beginning in 1978 and ending in 1999. These data show conductivity trending higher and values ranging more widely after the early 1980s (Figure 1).

Historical TMDL data – Epping 1995

The 1995 report “Lamprey River Total Maximum Daily Load (TMDL) Study – October 1995” by NHDES identified the only major point source of contamination on the Lamprey as the Epping Waste Water Treatment Facility. The major nonpoint pollution source was stormwater runoff. The TMDL assessed the river for metals (zinc, aluminum, lead and copper), but found no exceedences for aluminum or lead and planned additional testing for copper and zinc. The report led to a NPDES permit in 2000 for the Epping WWTF following requirements for facility improvements to be completed and in full operational compliance by September 1, 2002. Epping's discharge of organic, suspended and nutrient contaminants to the Lamprey River was projected to substantially decrease despite a near doubling of plant flow (Table 1).

Table 1 - 2001 Projection of changes in effluent concentrations from the Epping WWTF

	Typical Raw Sewage	Effluent - Old Lagoon Facility	Effluent - New AWT Facility
Flow		270,000 gpd	500,000 gpd
CBOD (Organics)	200 mg/l	30 mg/l (67 lbs)	5 mg/l (21 lbs)
Suspended Solids	200 mg/l	30 mg/l (67 lbs)	3 mg/l (12 lbs)
Ammonia	40 mg/l	25 mg/l (56 lbs)	1.4 mg/l (6 lbs)
Dissolved Oxygen	0 mg/l	2 mg/l	7 mg/l

Historical NHDES VRAP water quality data

NHDES Volunteer River Assessment Program (VRAP) collects water quality measurements at several sites on the Lamprey River. Lamprey VRAP data are available from 1998 through 2003 (Table 2). These results are for sampling from within the project limits and close to the same time of year. The results indicate fair water quality with occasional readings of low DO and pH, and conductivities that are somewhat higher than those seen at the USGS station.

Table 2 - NHDES VRAP 2002 Water Quality Data

Site	Date	Time	DO mg/L	DO %sat	Water temp C	pH	Turb. (NTU)	Cond. (uS/cm)	Site	Town
9-Lmp	8/3/2002	8:20	6.25	75.4	24.9	7.1	1.2	207.5	Lee Hook Road	Lee
9-Lmp	8/19/2002	8:04	6.48	77.5	24.4	-	0.5	219.5	Lee Hook Road	Lee
9-Lmp	9/28/2002	8:39	6.96	71.6	16.7	6.79	0.75	252.7	Lee Hook Road	Lee
9-Lmp	10/19/2002	11:45	9.38	83.4	10.0	5.4	1.8	248.1	Lee Hook Road	Lee
8-Lmp	8/3/2002	8:05	6.27	77.6	26	7.1	1.6	201.5	Wiswall Road	Durham

									Bridge	
8-Lmp	8/19/2002	7:24	6.78	84	26.1	-	1.51	211.4	Wiswall Road Bridge	Durham
8-Lmp	9/28/2002	8:20	6.8	72.6	18.5	6.51	2.08	234.4	Wiswall Road Bridge	Durham
8-Lmp	10/19/2002	11:30	9.31	83.4	10.6	5.6	2.04	221.4	Wiswall Road Bridge	Durham

Source: <http://www.des.state.nh.us/wmb/VRAP/vrap.asp?theLink=Lamprey>

BFC water quality data

The BFC measured water quality parameters at 37 stations. NHDES Ambient River Program collected data at three additional water quality stations that were installed and operated during the BFC study.

NHDES Ambient Rivers Monitoring Program water quality data

During the BFC project four multiprobe water quality readers (hydrolabs) were installed in the river (Report Figure 4) by NHDES' Ambient Rivers Program (ARMP) on Monday August 25, 2003. Water samples for total dissolved solids and total suspended solids were collected by ARMP at the time of hydrolab deployment for analysis by the NHDES Laboratory (Table 3). Laboratory procedures reported results as Total Residue and Total Suspended Residue. The difference between these values is Total Dissolved Solids value.

Each hydrolab collected data on four parameters (water temperature, dissolved oxygen, pH, specific conductivity) at a frequency of 15 minutes (Table 4 [summary] and Attachment B-3). The multiprobes were retrieved Friday August 29. The hydrolab at BFC082003.2, deployed 300 feet downstream of Lee Hook Road bridge, malfunctioned and no data are available. Three other hydrolabs were deployed: BFC082003.1 – on river right at the end of the riffles below Packers Falls; BFC082003.3 – on river right 200 feet upstream of the confluence with Beaver Brook; BFC082003.4 – 200 feet downstream from Wadleigh Falls. Data after 8/27/2004 16:00 from the hydrolab at BFC082003.3 for specific conductivity were clearly spurious.

BFC WATER QUALITY SAMPLING

Water quality measurements were taken between August 25 and August 29, 2003 at 37 stations of the 43 BFC fish collection stations (Report Figure 4). Detailed measurement process descriptions are in the BFC QAPP. All water quality measurements were taken at various times during the sampling days. Measurement results were not corrected for diurnal variations so difference between stations may reflect these variations.

Water quality results were as expected (Attachment B-1) Figures 2 through 6 show water quality parameter results at the BFC stations by distance along the Designated River.

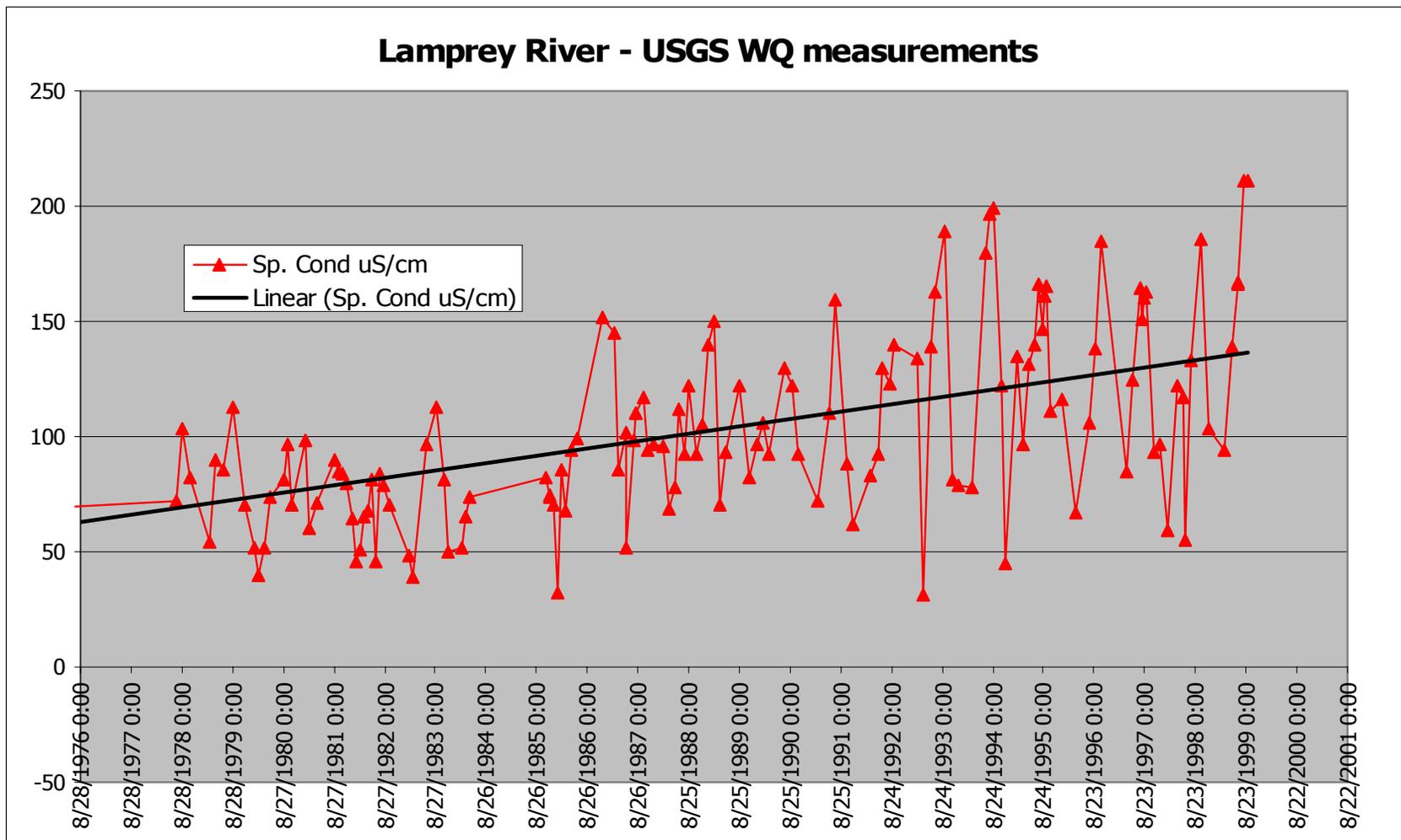


Figure 1 - USGS Specific Conductivity Data at Lamprey Near Newmarket Gage

These data are available at

http://nwis.waterdata.usgs.gov/nh/nwis/qwdata/?site_no=01073500&agency_cd=USGS&begin_date=&end_date=&format=html_table&pre_format=on&inventory_output=0&rdb_inventory_output=file&date_format=YYYY-MM-DD&rdb_compression=file&qw_sample_wide=0&submitted_form=brief_list

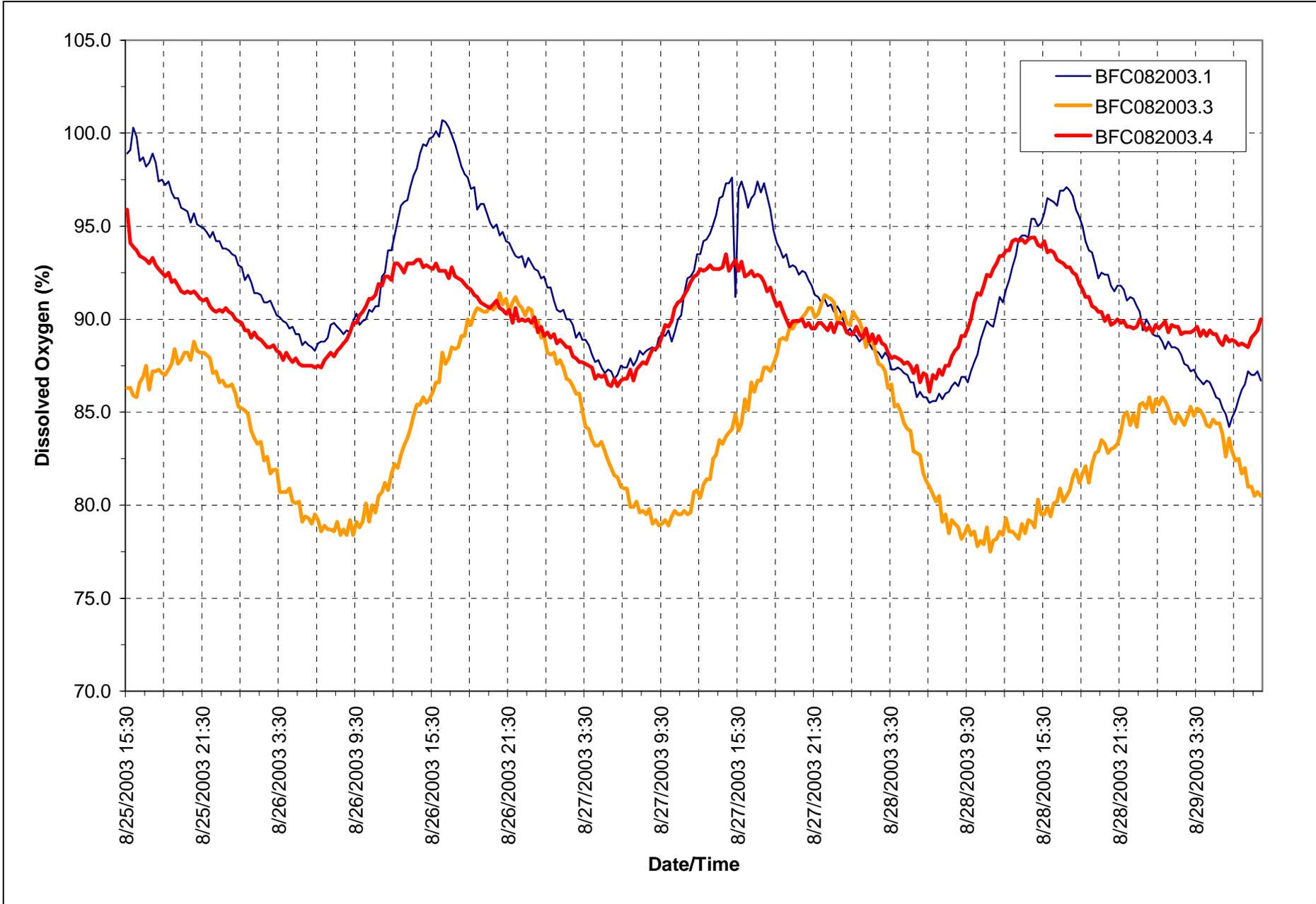
Table 3 - NH ARMP Results of WQ Samples Collected during BFC Sampling

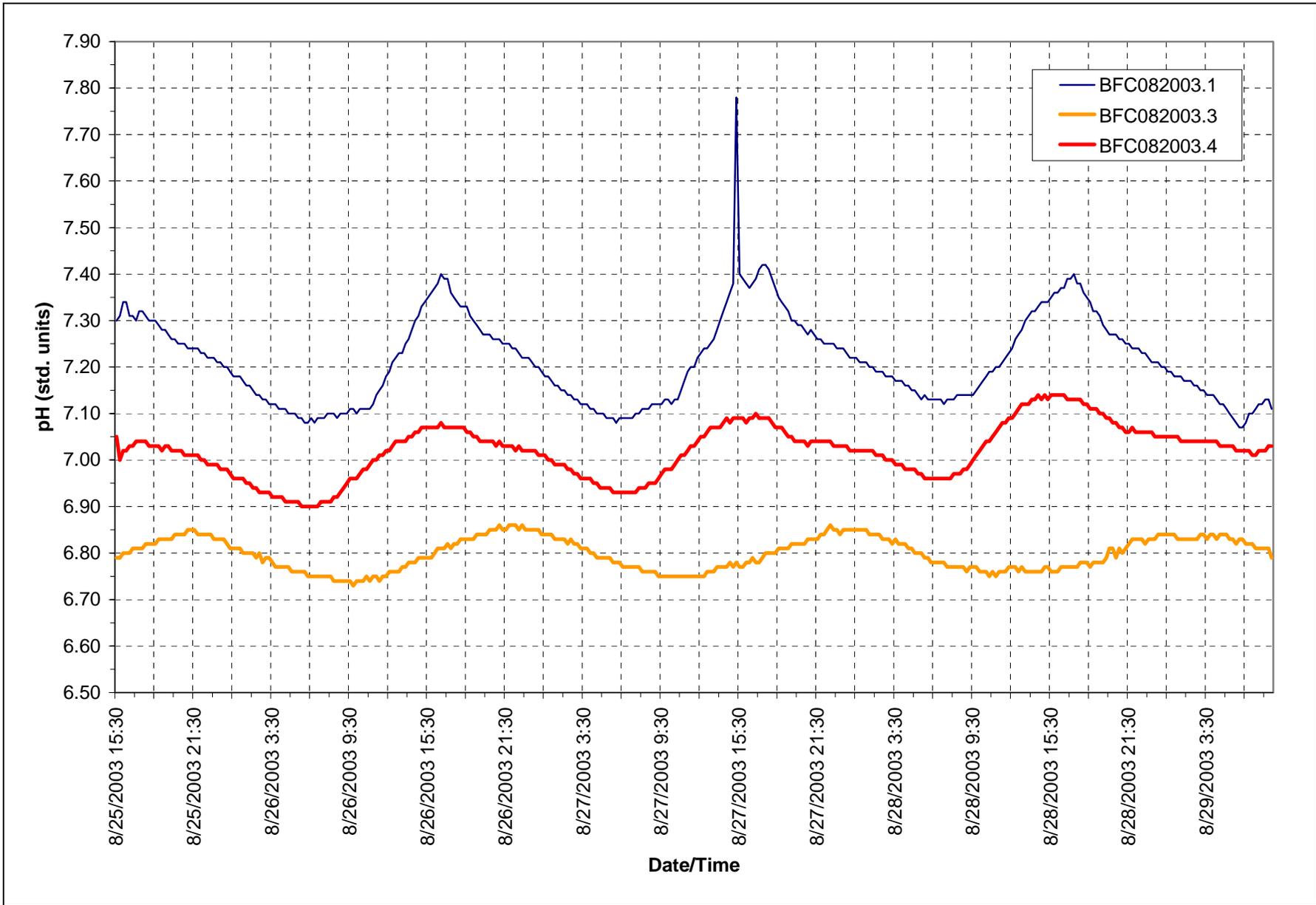
Lamprey Baseline Fish Community, NHDES ARMP WQ Sampling Results						
Locator	Analyte	Result	Units	Sample #	Collection Date	Collection Time
BFC082003.1	Residue, Total	107	mg/L	A63291-1	8/25/2003	15:01
BFC082003.1	Residue.T. Suspended	<1	mg/L	A63291-1	8/25/2003	15:01
BFC082003.2	Residue, Total	110	mg/L	A63291-2	8/25/2003	14:27
BFC082003.2	Residue.T. Suspended	1	mg/L	A63291-2	8/25/2003	14:27
BFC082003.3	Residue, Total	111	mg/L	A63291-3	8/25/2003	14:05
BFC082003.3	Residue.T. Suspended	3	mg/L	A63291-3	8/25/2003	14:05
BFC082003.4	Residue, Total	111	mg/L	A63291-4	8/25/2003	15:35
BFC082003.4	Residue.T. Suspended	2	mg/L	A63291-4	8/25/2003	15:35
BFC082003.1	Residue, Total	116	mg/L	A63576-1	8/29/2003	8:49
BFC082003.1	Residue.T. Suspended	2.5	mg/L	A63576-1	8/29/2003	8:49
BFC082003.2	Residue, Total	113	mg/L	A63576-2	8/29/2003	9:04
BFC082003.2	Residue.T. Suspended	3	mg/L	A63576-2	8/29/2003	9:04
BFC082003.3	Residue, Total	120	mg/L	A63576-3	8/29/2003	9:32
BFC082003.3	Residue.T. Suspended	3	mg/L	A63576-3	8/29/2003	9:32
BFC082003.4	Residue, Total	122	mg/L	A63576-4	8/29/2003	9:50
BFC082003.4	Residue.T. Suspended	3	mg/L	A63576-4	8/29/2003	9:50
Total Suspended Solids (TSS) is the difference between Residue, Total and Residue. T. Suspended.						

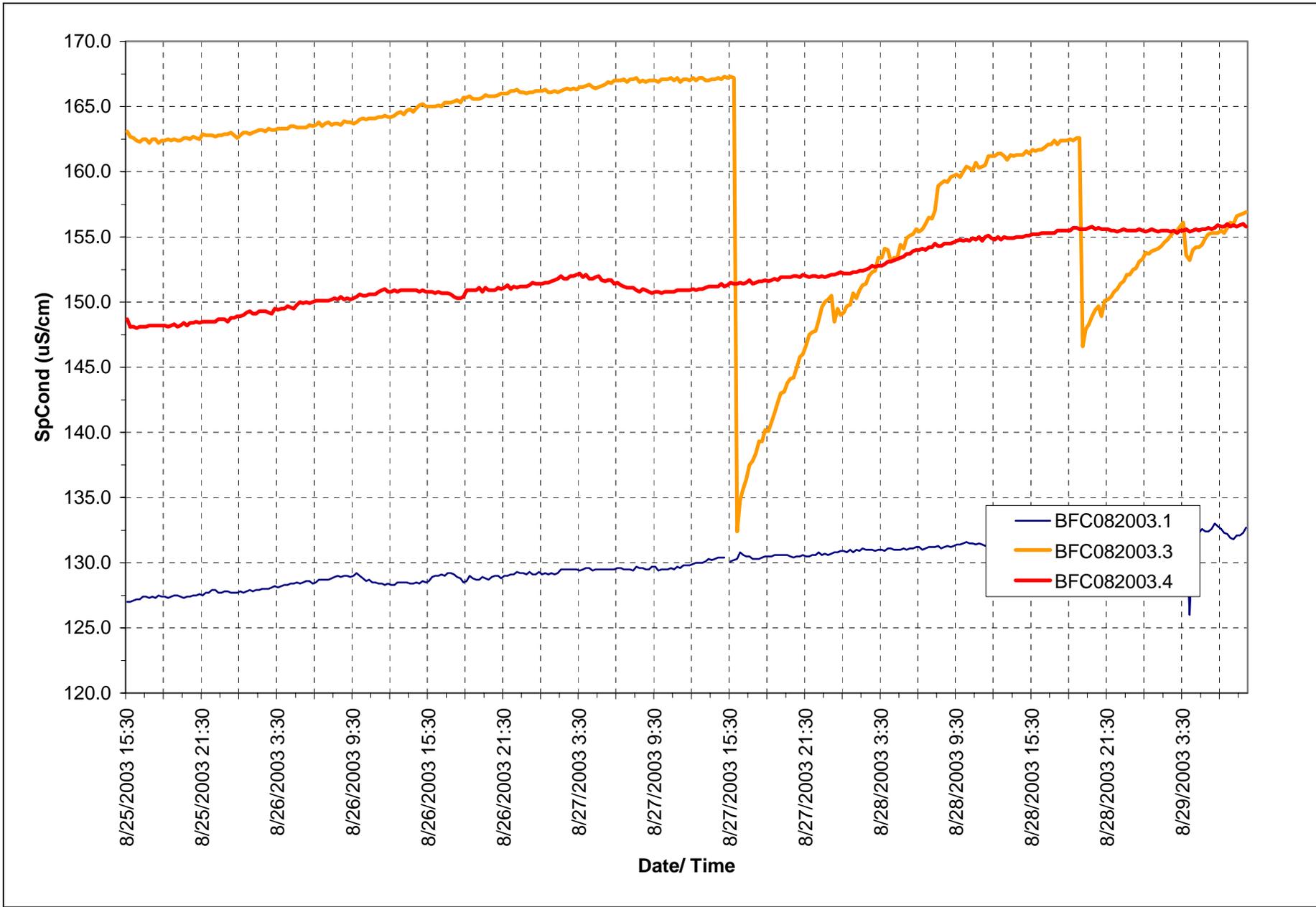
Table 4 - BFC Lamprey River - Summary of ARMP Multiprobe WQ Data

Station	Date	Water Temp	Water Temp	Water Temp	DO Instant.	DO Avg.	DO Avg.	pH	pH	pH	Sp Cond	Sp Cond	Sp Cond
		min °C	median °C	max °C	Min. mg/l	Daily %	Daily mg/l	min Units	median Units	max Units	min uS/cm	median uS/cm	max uS/cm
bfc082003.1	8/26/2003	21.6	22.9	24.4	7.8	93.3	8.0	7.1	7.2	7.4	127.7	128.6	129.3
bfc082003.1	8/27/2003	22.0	23.3	24.6	7.6	91.5	7.8	7.1	7.2	7.8	129.1	129.9	130.8
bfc082003.1	8/28/2003	21.9	22.6	23.8	7.4	90.5	7.8	7.1	7.2	7.4	130.6	131.0	131.6
bfc082003.3	8/26/2003	20.5	21.1	22.1	7.0	84.3	7.5	6.7	6.8	6.9	162.6	164.4	166.3
bfc082003.3	8/27/2003	21.4	21.9	22.9	7.0	84.8	7.4	6.8	6.8	6.9	132.4	158.9	167.3
bfc082003.3	8/28/2003	21.6	22.0	22.8	6.8	82.2	7.2	6.8	6.8	6.9	146.6	156.4	162.6
bfc082003.4	8/26/2003	19.8	21.5	23.1	7.8	90.3	7.5	6.9	7.0	7.1	148.8	150.4	151.5
bfc082003.4	8/27/2003	20.6	22.2	23.7	7.6	89.8	7.4	6.9	7.0	7.1	150.7	151.5	152.2
bfc082003.4	8/28/2003	20.5	21.5	22.5	7.7	90.4	7.2	7.0	7.1	7.1	152.2	154.5	155.8
Reading interval was 15 minutes.													
Station	Start	Stop	Hours	Average Temp °C	Average DO% Sat	Average DO mg/l	Average pH Units	Average SpCond uS/cm					
bfc082003.1	8/25/2003 15:00	8/29/2003 8:30	89.5	22.8	91.8	7.9	7.2	129.8					
bfc082003.3	8/25/2003 14:15	8/29/2003 9:45	91.5	21.6	84.1	7.4	6.8	159.7					
bfc082003.4	8/25/2003 15:30	8/29/2003 9:45	90.25	21.5	90.3	8.0	7.0	152.2					
Station	Site location							Instrument ID					
bfc082003.1	Lamprey River ~ 700 feet downstream from Packers Falls Road bridge							MiniSonde 4a 40335					
bfc082003.3	Lamprey River ~ 200 feet downstream from Beaver Brook confluence							MiniSonde 4a 39672					
bfc082003.4	Lamprey River ~ 200 feet downstream from Wadleigh Falls							DataSonde4a 37793					

BFC Water Quality data from ARMP data sondes







Lamprey BFC sampling data August 25-29, 2003

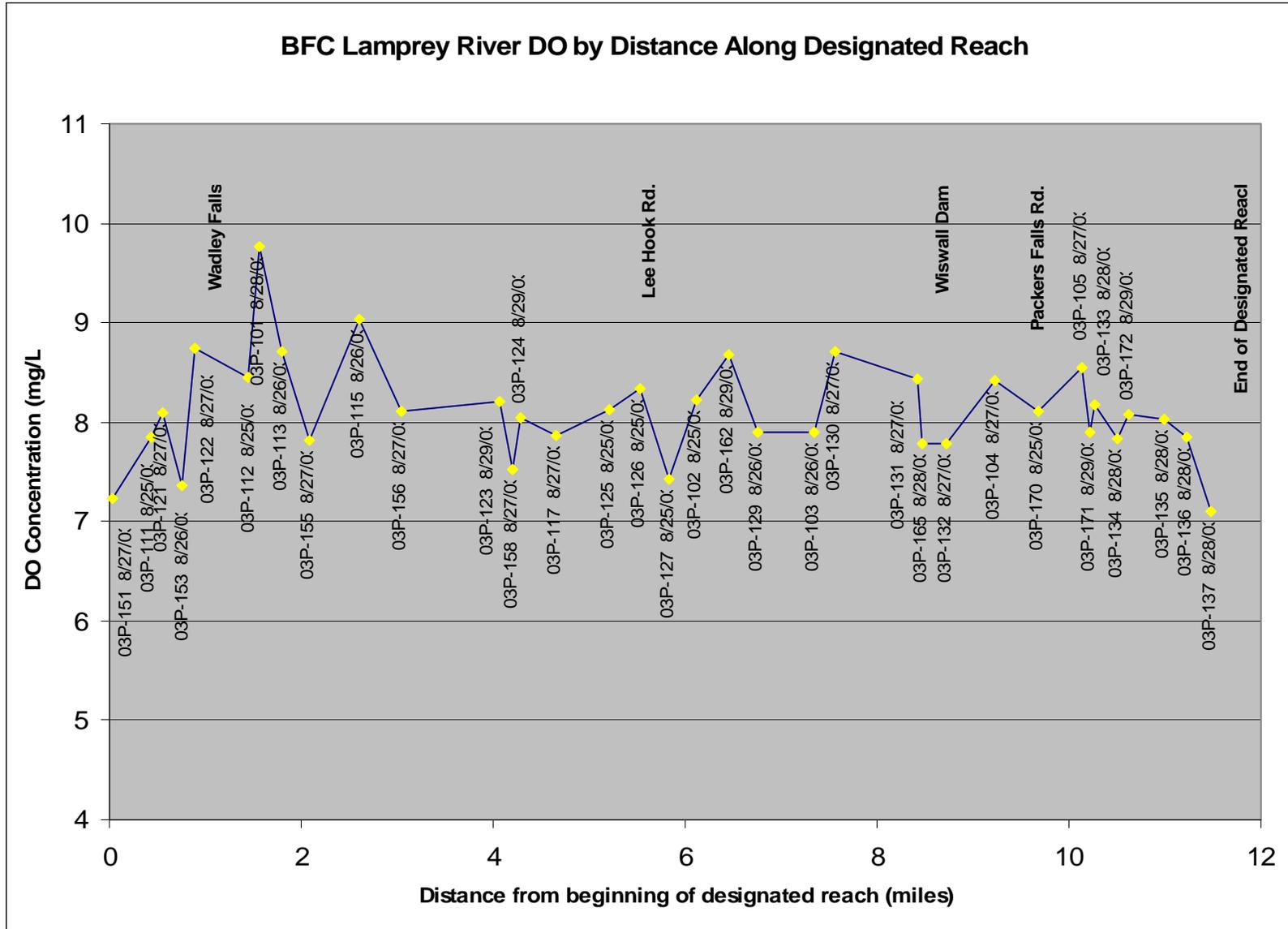


Figure 2 - BFC Lamprey DO by Distance Along the Designated Reach

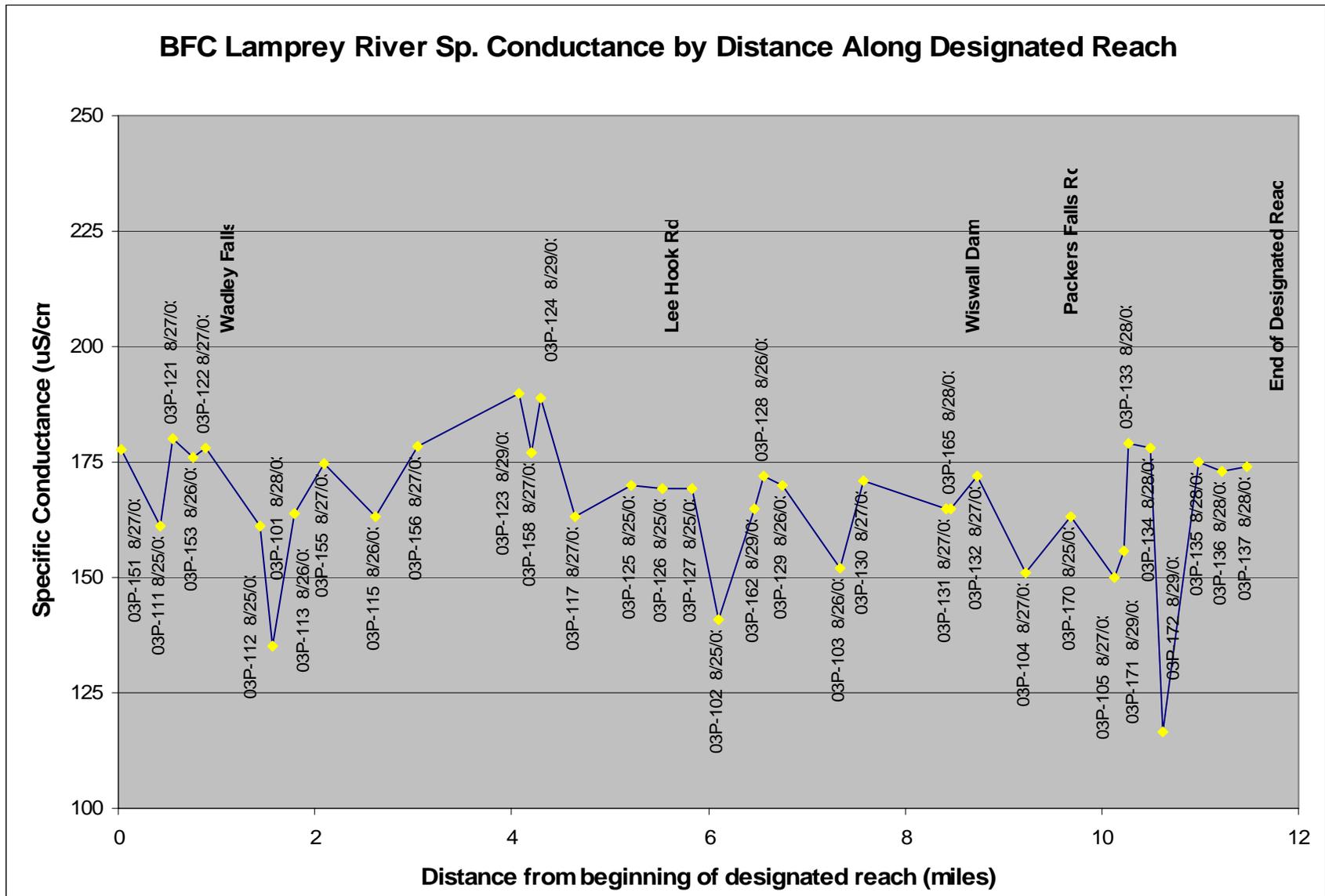


Figure 3 - BFC Lamprey Specific Conductance by Distance Along the Designated Reach

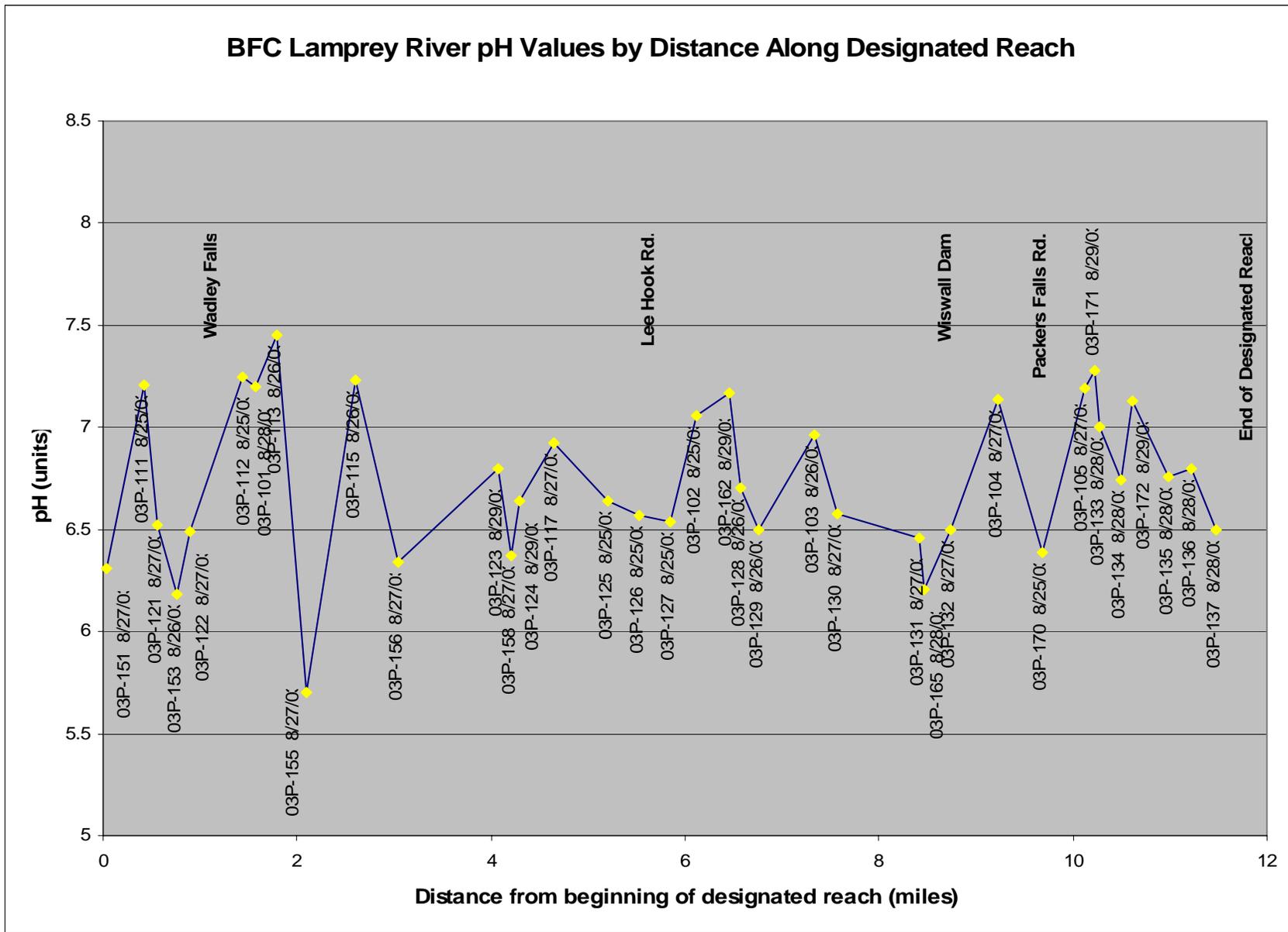


Figure 4 - BFC Lamprey pH by Distance Along the Designated Reach

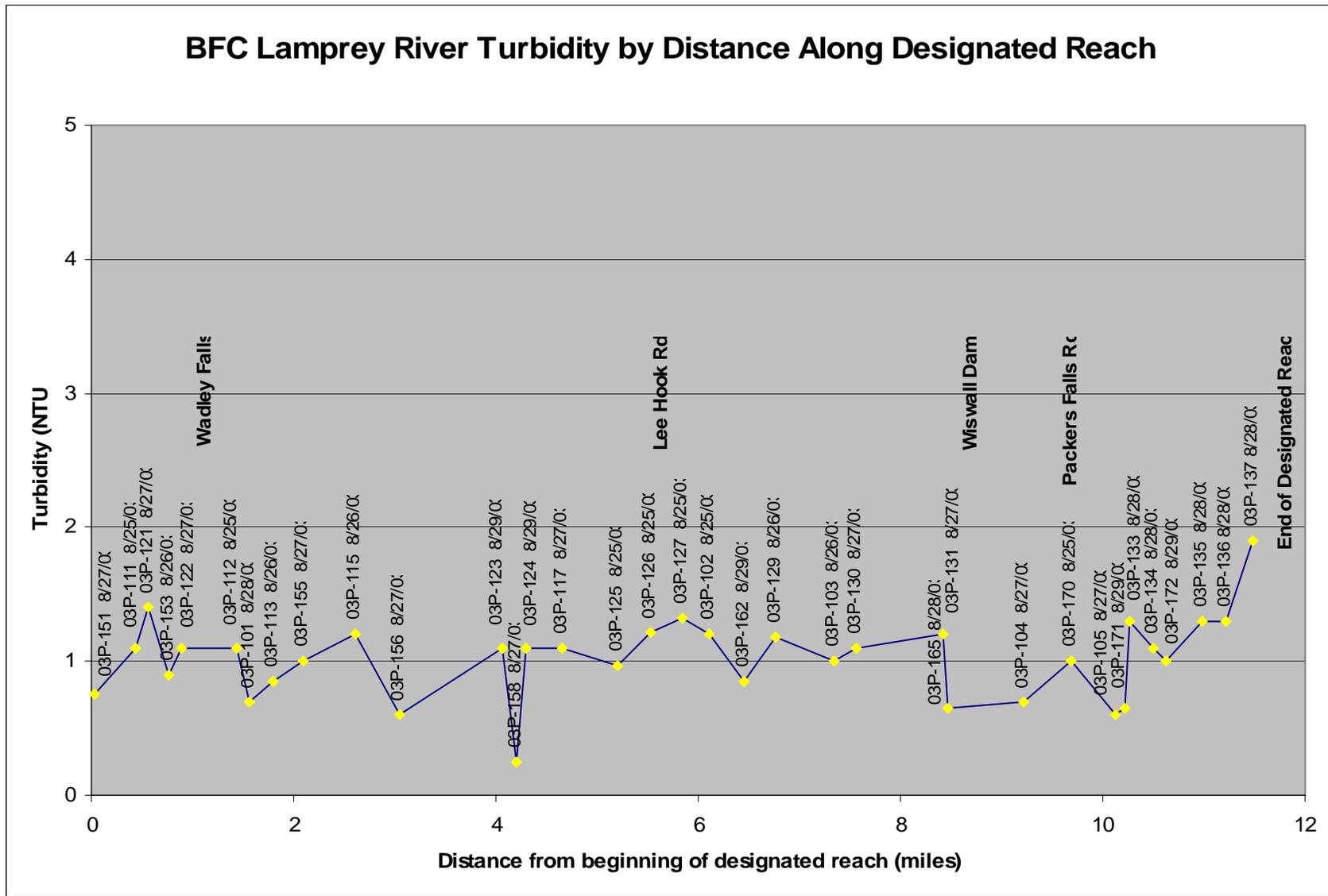


Figure 5 - BFC Lamprey Turbidity by Distance Along the Designated Reach

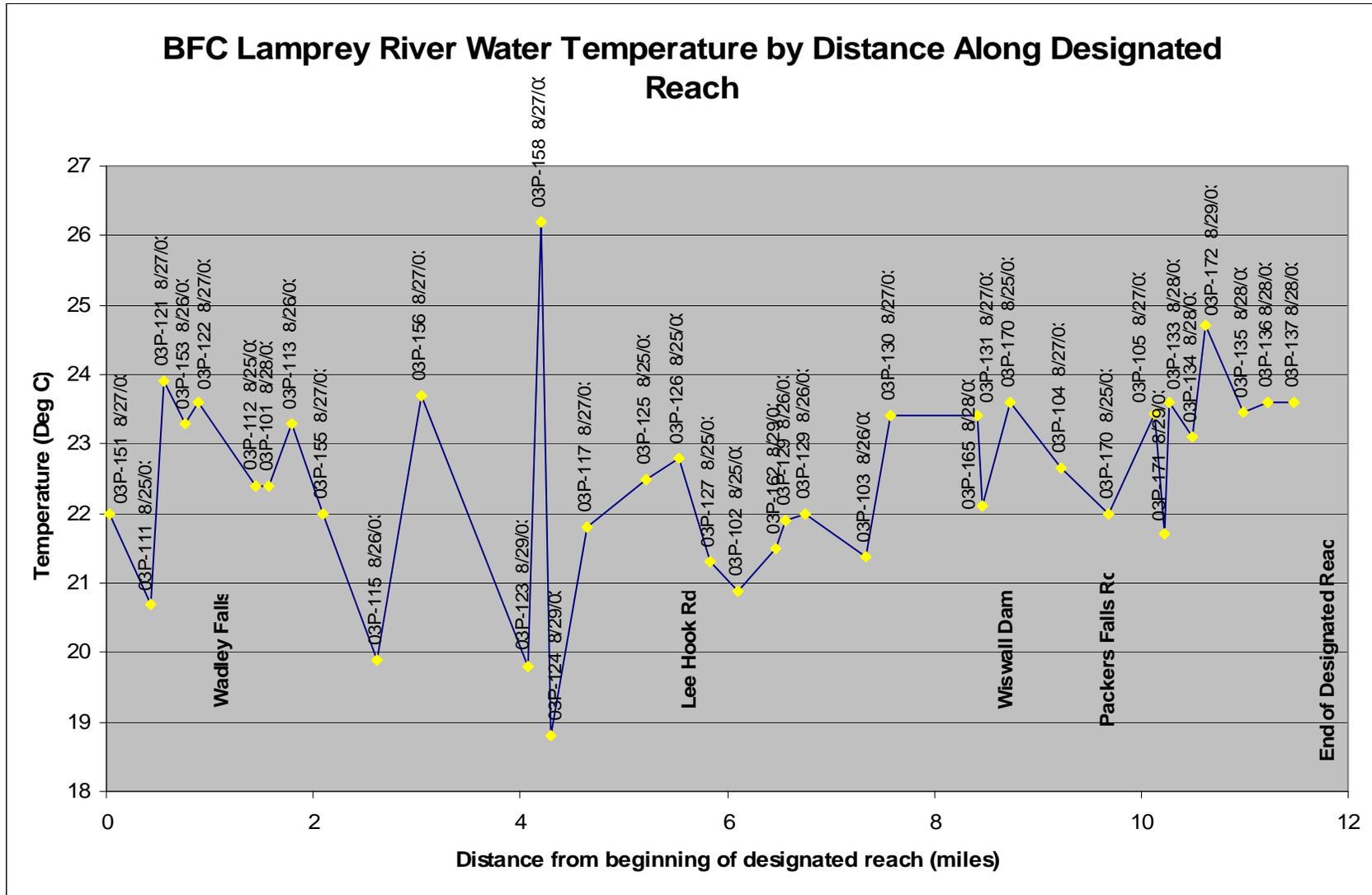


Figure 6 - BFC Lamprey Water Temperature by Distance Along the Designated Reach

B-1 - Lamprey BFC Water Quality Result by Station

STATION	TOWN	ACTIVITY ID	ACTIVITY CATEGORY	START DATE	START TIME	DISSOLVED OXYGEN (MG/L)	DISSOLVED OXYGEN SATURATION (%)	PH	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)
03P-101	L	BFC03P-101	Rout.	8/28/2003	10:00	9.76	112.7	7.2	135		22.4	0.7
03P-102	L	BFC03P-102	Rout.	8/25/2003	10:20	8.22	92	7.06	141		20.88	1.2
03P-103	L	BFC03P-103	Rout.	8/26/2003	9:40	7.89	89.1	6.96	152		21.37	1
03P-104	D	BFC03P-104	Rout.	8/27/2003	9:30	8.41	97.4	7.14	151		22.65	0.7
03P-105	D	BFC03P-105	Rout.	8/27/2003	13:00	8.54	105	7.19	150		23.44	0.6
03P-111	L	BFC03P-111	Rout.	8/25/2003	12:07	7.85	87.5	7.21	161	20.9	20.7	1.1
03P-111	L	BFC03P-111R	Rep.	8/25/2003	12:17	7.67	85.9	6.82	161.1	18.7	20.7	1.2
03P-112	L	BFC03P-112	Rout.	8/25/2003	15:42	8.45	97.4	7.25	161	22.6	22.4	1.1
03P-112	L	BFC03P-112D	Dup.	8/25/2003	15:58	8.5	98.2	7	160.2	22.7	22.3	1
03P-113	L	BFC03P-113	Rout.	8/26/2003	16:00	8.71	102.4	7.45	164	24.8	23.3	0.85
03P-113	L	BFC03P-113R	Rep.	8/26/2003	16:09	8.52	99.8	7.38	164	24.7	23.5	0.8
03P-115	L	BFC03P-115	Rout.	8/26/2003	10:47	9.04	109.3	7.23	163.1	19.7	19.9	1.2
03P-115	L	BFC03P-115D	Dup.	8/26/2003	10:58	8.04	88	6.83	161.8	18.5	19.9	1.2
03P-117	L	BFC03P-117	Rout.	8/27/2003	10:37	7.86	89.7	6.92	163.3	21	21.8	1.1

03P-117	L	BFC03P-117D	Dup.	8/27/2003	10:50	7.75	88.2	7.09	162.5	21.2	21.9	1
03P-121	L	BFC03P-121	Rout.	8/27/2003	18:10	8.1	94.9	6.52	180		23.9	1.4
03P-122	L	BFC03P-122	Rout.	8/27/2003	15:45	8.74	102	6.49	178		23.6	1.1
03P-123	L	BFC03P-123	Rout.	8/29/2003	11:45	8.21	90.2	6.8	190	21	19.8	1.1
03P-124	L	BFC03P-124	Rout.	8/29/2003	10:45	8.05	86.7	6.64	189	19	18.8	1.1
03P-125	L	BFC03P-125	Rout.	8/25/2003	15:30	8.12	93.8	6.64	170	23.2	22.5	0.97
03P-126	L	BFC03P-126	Rout.	8/25/2003	14:00	8.33	96.6	6.57	169.2	22.2	22.8	1.21
03P-127	L	BFC03P-127	Rout.	8/25/2003	12:26	7.42	83	6.54	169.2	21.3	21.3	1.32
03P-128	L	BFC03P-128	Rout.	8/26/2003	11:10			6.7	172		21.9	
03P-129	L	BFC03P-129	Rout.	8/26/2003	13:00	7.9	90	6.5	170		22	1.18
03P-130	L	BFC03P-130	Rout.	8/27/2003	14:00	8.71	102.8	6.58	171		23.4	1.1
03P-131	D	BFC03P-131	Rout.	8/27/2003	12:40	8.43	99.5	6.46	165		23.4	1.2
03P-132	D	BFC03P-132	Rout.	8/27/2003		7.78	92	6.5	172	24.8	23.6	
03P-133	D	BFC03P-133	Rout.	8/28/2003	15:50	8.18	96.9	7	179	19.3	23.6	1.3
03P-134	D	BFC03P-134	Rout.	8/28/2003	17:09	7.84	91.8	6.74	178	18.3	23.1	1.1
03P-135	D	BFC03P-135	Rout.	8/28/2003	14:15	8.02	94.7	6.76	175	21	23.46	1.3
03P-136	D	BFC03P-136	Rout.	8/28/2003	13:05	7.85	92.6	6.8	173	20.8	23.6	1.3
03P-137	D	BFC03P-137	Rout.	8/28/2003	11:30	7.11	84	6.5	174	20.6	23.6	1.9
03P-151	L	BFC03P-151	Rout.	8/27/2003	8:36	7.23	83.7	6.31	177.7	22	22	0.75
03P-153	L	BFC03P-153	Rout.	8/26/2003	12:00	7.36	86.4	6.18	176.1	23	23.3	0.9
03P-155	L	BFC03P-155	Rout.	8/27/2003	9:29	7.81	89.8	5.7	174.8	21.9	22	1
03P-156	L	BFC03P-156	Rout.	8/27/2003	10:45	8.11	96	6.34	178.3	22.4	23.7	0.6
03P-158	L	BFC03P-158	Rout.	8/27/2003	12:30	7.52	93	6.37	177	25.8	26.2	0.25
03P-162	L	BFC03P-162	Rout.	8/29/2003	12:25	8.68	98.5	7.17	164.8	19.5	21.5	0.85
03P-165	D	BFC03P-165	Rout.	8/28/2003	13:50	7.79	89.3	6.21	165	18.5	22.1	0.65
03P-170	D	BFC03P-170	Rout.	8/25/2003	11:23	8.11	92.7	6.39	163.1	20	22	1
03P-171	D	BFC03P-171	Rout.	8/29/2003	9:25	7.89	90.2	7.28	155.6	19.1	21.7	0.65

03P-172	D	BFC03P-172	Rout.	8/29/2003	14:10	8.08	99.4	7.13	116.6	21.8	24.7	1
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	<u>ACTIVITY CATEGORY</u>
Rout.	ROUTINE MSR/OBS
Dup.	DUPLICATE MSR/OBS
Rep.	REPLICATE MSR/OBS
	<u>TOWN</u>
D	DURHAM
L	LEE

B-2 – USGS Water Quality Data at Lamprey Stream Gage
USGS 01073500 LAMPREY RIVER
NEAR NEWMARKET, NH

SAMPLE DATETIME	Temperature, water, deg C	Temperature, air, deg C	Specif. conductance, wat unf uS/cm 25 degC
Sample time	Water temp C	Air Temp C	Sp. Cond uS/cm
10/20/1953 15:50			35
4/15/1954 0:00	6.5		43
7/13/1978 11:20	23		72
8/23/1978 9:20	20		103
10/20/1978 10:20	8		82
3/22/1979 10:30			54
4/23/1979 11:05	9.5		90
6/26/1979 11:00	19		86
8/28/1979 10:40	18.5		113
11/28/1979 11:00	8		70
1/28/1980 10:55	0		52
3/4/1980 13:45	0		40
4/10/1980 15:50	5		52
5/28/1980 12:20	17		74
8/27/1980 9:45	22		81
9/22/1980 10:00	14		97
10/28/1980 11:00	6		70
1/29/1981 12:15	0		98
2/25/1981 12:00	0		60
4/28/1981 10:50	11		71
8/27/1981 10:20	18		90
9/28/1981 10:00	13		85
10/28/1981 9:30			84
11/25/1981 9:45			80
12/30/1981 9:15	1		64
1/29/1982 10:45	0		46
2/25/1982 11:20	0		51
3/29/1982 12:50	2		65
4/28/1982 13:50			68
5/25/1982 14:10	13		81
6/28/1982 10:50			46
7/28/1982 10:33			84
8/26/1982 10:45	18		79

9/27/1982 9:47			70
2/24/1983 10:32	0		48
3/21/1983 14:10	4		39
6/27/1983 11:17	21		97
8/29/1983 11:20	21		113
10/24/1983 10:30	8		81
11/28/1983 10:30	3.5		50
2/27/1984 13:00	4		52
3/26/1984 10:50	1.5		65
4/25/1984 10:00			74
10/28/1985 9:15	8		82
11/22/1985 11:45	12		74
11/25/1985 8:10	13		75
12/23/1985 9:00	0		70
1/27/1986 10:00	0		32
2/25/1986 11:00	0		86
3/26/1986 10:00			68
5/5/1986 9:45	11.5		94
6/10/1986 10:00	19		99
12/16/1986 11:50	0.5		152
3/5/1987 9:00	0		145
4/8/1987 14:45	6.5		86
6/3/1987 9:00	18		102
6/5/1987 9:30	20		52
7/24/1987 8:00	19		98
8/5/1987 9:15	18		110
8/13/1987 12:00	17		110
9/30/1987 9:00	15		117
11/2/1987 15:15	5		94
12/9/1987 13:55	1.5		97
2/29/1988 12:35	1		96
4/5/1988 8:45	8		69
5/16/1988 10:45	15		78
6/20/1988 14:55	21		112
8/1/1988 12:45	24		92
8/30/1988 12:00	20		122
10/24/1988 11:45	9		92
12/5/1988 11:50	2		105
1/17/1989 12:00	0		140
2/27/1989 13:15	0		150
4/10/1989 13:30	5		70
5/22/1989 13:30	14		93
8/21/1989 9:45	23		122
11/8/1989 15:10	7.5		82
1/3/1990 16:00	0		97
2/8/1990 10:55	1		106
3/26/1990 10:05	4		92
7/9/1990 10:00	23		130

9/4/1990 12:45	20		122
10/15/1990 13:00	17		92
3/6/1991 8:55	1		72
5/29/1991 13:00	23		110
7/22/1991 10:15	27		159
10/9/1991 8:25	11.5	9	88
11/27/1991 8:00	3	-11.5	62
3/19/1992 9:00	0.5	-5	83
5/18/1992 10:25	11	22	92
6/23/1992 8:40	20	14	130
8/13/1992 8:45	21	17	123
9/15/1992 9:30	18	20	140
3/4/1993 11:00	0	6	134
4/12/1993 12:00	2		31
6/4/1993 11:10	16.5	22.5	139
7/9/1993 12:00	29		163
9/17/1993 12:00	19	16	189
11/10/1993 12:10	3.5	11.5	81
12/23/1993 9:10	1	1	79
3/25/1994 7:35	0	4.8	78
6/28/1994 8:25	22	24.3	180
7/27/1994 15:05	29.2	23.5	197
8/31/1994 9:30	23.6	11.6	199
10/27/1994 13:00	11.4	10.7	122
11/22/1994 13:20	5.5	13.2	45
2/15/1995 11:15	0	0	135
3/29/1995 12:30	6.5	10	97
5/11/1995 10:30	14	9	131
6/19/1995 14:15	26	28	140
7/13/1995 7:00			166
8/14/1995 11:10	25.9	24.2	147
8/31/1995 9:20	20.2	19.6	161
9/1/1995 9:05	21.1	25	161
9/7/1995 13:20	22.1	28.1	165
10/12/1995 14:30	12.8	22	111
1/4/1996 11:55	0	-6.5	116
4/19/1996 8:15	7.1	11.7	67
7/24/1996 10:20	20.6	19.3	106
8/30/1996 12:05	24	19.4	138
10/9/1996 13:00	11.3	14.4	185
4/8/1997 11:40	9	6	85
5/29/1997 15:55			125
7/17/1997 9:45	26	30	164
8/6/1997 9:15	24	22	151
8/22/1997 9:50	22	20.5	160
9/3/1997 13:10	22	20	163
10/23/1997 8:55	7.3	4.9	93
12/11/1997 12:15	0	-1.5	97

2/5/1998 10:10	0		59
4/14/1998 8:20	9.9	14.2	122
5/26/1998 10:20	19.6	25	117
6/15/1998 12:25	16.4	21.5	55
7/20/1998 12:50	25.1	26.4	133
10/5/1998 8:35	11.6	15	186
12/2/1998 13:25	4.9	17.1	103
3/22/1999 12:15	3.9	8.1	94
5/14/1999 8:30	15.7	13.9	139
6/21/1999 12:00	21.4	22.3	166
6/29/1999 11:15	26.1	28	167
8/5/1999 10:10	25.2	28.5	211
9/7/1999 12:40	23.3	26.8	211

B-3 - NHDES Ambient Rivers Program Water Quality Data

MiniSonde 4a 40335

Log File Name: bfc082003.1

Site: Lamprey River ~ 700 feet downstream from Packers Falls Road bridge

Water Depth (max) ~ 2.0 feet

Water Depth (at DataSonde location) ~ 1.25 feet

DataSonde Depth ~ 0.75 feet

blue = deployment/retrieval times

Date/Time	Temp °C	DO% Sat	DO mg/l	pH Units	SpCond uS/cm
8/25/2003 11:00	23.8	101.6	8.6	8.49	0.2
8/25/2003 11:15	24.2	103.1	8.6	8.79	0.1
8/25/2003 11:30	24.8	102.0	8.5	8.50	0.0
8/25/2003 11:45	25.0	100.7	8.3	8.43	0.1
8/25/2003 12:00	25.1	100.7	8.3	8.25	0.2
8/25/2003 12:15	20.9	89.9	8.0	7.16	132.9
8/25/2003 12:30	21.1	89.9	8.0	7.03	133.1
8/25/2003 12:45	21.2	90.3	8.0	7.02	133.2
8/25/2003 13:00	21.3	90.7	8.0	7.02	133.4
8/25/2003 13:15	21.4	90.8	8.0	7.02	133.4
8/25/2003 13:30	26.0	93.8	7.6	8.13	571.0
8/25/2003 13:45	26.9	99.6	8.0	8.35	0.0
8/25/2003 14:00	27.0	100.9	8.0	8.47	0.1
8/25/2003 14:15	30.4	92.7	6.9	8.50	586.0
8/25/2003 14:30	35.4	90.7	6.3	8.73	624.0
8/25/2003 14:45	30.9	104.6	7.8	7.82	0.3
8/25/2003 15:00	23.4	99.0	8.4	7.32	126.4
8/25/2003 15:15	23.5	99.3	8.4	7.31	126.8
8/25/2003 15:30	23.5	98.9	8.4	7.30	127.0
8/25/2003 15:45	23.6	99.1	8.4	7.31	127.0
8/25/2003 16:00	23.7	100.3	8.5	7.34	127.1
8/25/2003 16:15	23.7	99.8	8.5	7.34	127.2
8/25/2003 16:30	23.6	98.5	8.4	7.31	127.2
8/25/2003 16:45	23.6	98.7	8.4	7.31	127.4
8/25/2003 17:00	23.6	98.2	8.3	7.30	127.4
8/25/2003 17:15	23.6	98.4	8.4	7.32	127.3
8/25/2003 17:30	23.5	98.9	8.4	7.32	127.4
8/25/2003 17:45	23.5	98.4	8.4	7.31	127.3
8/25/2003 18:00	23.5	97.4	8.3	7.30	127.5
8/25/2003 18:15	23.5	97.5	8.3	7.30	127.4
8/25/2003 18:30	23.5	97.2	8.3	7.30	127.4
8/25/2003 18:45	23.5	97.4	8.3	7.29	127.3
8/25/2003 19:00	23.5	96.8	8.2	7.28	127.4
8/25/2003 19:15	23.5	96.5	8.2	7.28	127.5
8/25/2003 19:30	23.4	96.5	8.2	7.27	127.5
8/25/2003 19:45	23.4	96.0	8.2	7.26	127.4
8/25/2003 20:00	23.4	95.9	8.2	7.26	127.3
8/25/2003 20:15	23.4	95.8	8.2	7.25	127.4

8/25/2003 20:30	23.4	95.2	8.1	7.25	127.4
8/25/2003 20:45	23.3	95.7	8.2	7.25	127.5
8/25/2003 21:00	23.3	95.1	8.1	7.24	127.5
8/25/2003 21:15	23.3	95.0	8.1	7.24	127.6
8/25/2003 21:30	23.3	94.9	8.1	7.24	127.5
8/25/2003 21:45	23.3	94.7	8.1	7.24	127.7
8/25/2003 22:00	23.2	94.4	8.1	7.23	127.7
8/25/2003 22:15	23.2	94.7	8.1	7.23	127.9
8/25/2003 22:30	23.2	94.2	8.1	7.22	127.9
8/25/2003 22:45	23.1	94.2	8.1	7.22	127.7
8/25/2003 23:00	23.1	93.8	8.0	7.22	127.7
8/25/2003 23:15	23.1	93.8	8.0	7.21	127.8
8/25/2003 23:30	23.1	93.7	8.0	7.21	127.8
8/25/2003 23:45	23.0	93.5	8.0	7.20	127.7
8/26/2003 0:00	23.0	93.4	8.0	7.20	127.7
8/26/2003 0:15	22.9	92.9	8.0	7.19	127.7
8/26/2003 0:30	22.9	92.8	8.0	7.18	127.8
8/26/2003 0:45	22.8	92.1	7.9	7.18	127.7
8/26/2003 1:00	22.8	92.4	8.0	7.18	127.8
8/26/2003 1:15	22.7	92.0	7.9	7.17	127.9
8/26/2003 1:30	22.7	91.4	7.9	7.16	127.8
8/26/2003 1:45	22.6	91.4	7.9	7.16	127.9
8/26/2003 2:00	22.6	91.3	7.9	7.15	127.9
8/26/2003 2:15	22.5	90.9	7.9	7.14	128.0
8/26/2003 2:30	22.4	90.9	7.9	7.14	128.0
8/26/2003 2:45	22.4	91.0	7.9	7.13	128.0
8/26/2003 3:00	22.3	90.6	7.9	7.13	128.1
8/26/2003 3:15	22.3	90.2	7.8	7.12	128.2
8/26/2003 3:30	22.2	90.1	7.8	7.12	128.1
8/26/2003 3:45	22.2	89.9	7.8	7.12	128.2
8/26/2003 4:00	22.2	89.8	7.8	7.11	128.3
8/26/2003 4:15	22.1	89.5	7.8	7.11	128.3
8/26/2003 4:30	22.1	89.6	7.8	7.11	128.4
8/26/2003 4:45	22.0	89.2	7.8	7.10	128.4
8/26/2003 5:00	22.0	89.2	7.8	7.10	128.5
8/26/2003 5:15	21.9	88.6	7.8	7.10	128.4
8/26/2003 5:30	21.9	88.8	7.8	7.09	128.5
8/26/2003 5:45	21.8	88.6	7.8	7.09	128.6
8/26/2003 6:00	21.8	88.5	7.8	7.08	128.6
8/26/2003 6:15	21.7	88.3	7.8	7.08	128.4
8/26/2003 6:30	21.7	88.7	7.8	7.09	128.5
8/26/2003 6:45	21.7	88.8	7.8	7.08	128.7
8/26/2003 7:00	21.7	88.8	7.8	7.09	128.7
8/26/2003 7:15	21.6	89.0	7.8	7.09	128.7
8/26/2003 7:30	21.6	89.7	7.9	7.09	128.7
8/26/2003 7:45	21.6	89.8	7.9	7.10	128.8
8/26/2003 8:00	21.6	89.6	7.9	7.10	128.9
8/26/2003 8:15	21.6	89.4	7.9	7.10	129.0
8/26/2003 8:30	21.6	89.2	7.9	7.09	128.9
8/26/2003 8:45	21.6	89.4	7.9	7.10	129.0
8/26/2003 9:00	21.6	89.3	7.9	7.10	129.0

8/26/2003 9:15	21.6	89.9	7.9	7.10	128.9
8/26/2003 9:30	21.7	90.3	8.0	7.11	129.0
8/26/2003 9:45	21.6	89.7	7.9	7.11	129.2
8/26/2003 10:00	21.7	89.9	7.9	7.10	129.0
8/26/2003 10:15	21.7	90.0	7.9	7.11	128.8
8/26/2003 10:30	21.7	90.5	8.0	7.11	128.6
8/26/2003 10:45	21.8	90.4	7.9	7.11	128.7
8/26/2003 11:00	21.9	90.7	8.0	7.11	128.5
8/26/2003 11:15	22.0	90.7	7.9	7.12	128.5
8/26/2003 11:30	22.1	92.3	8.1	7.14	128.4
8/26/2003 11:45	22.1	92.5	8.1	7.15	128.4
8/26/2003 12:00	22.2	93.7	8.2	7.16	128.3
8/26/2003 12:15	22.3	93.7	8.1	7.18	128.4
8/26/2003 12:30	22.4	94.5	8.2	7.19	128.3
8/26/2003 12:45	22.6	95.3	8.2	7.21	128.3
8/26/2003 13:00	22.8	96.1	8.3	7.22	128.5
8/26/2003 13:15	23.0	96.3	8.3	7.23	128.5
8/26/2003 13:30	23.1	96.4	8.3	7.23	128.5
8/26/2003 13:45	23.3	97.1	8.3	7.25	128.5
8/26/2003 14:00	23.4	97.7	8.3	7.26	128.4
8/26/2003 14:15	23.6	98.1	8.3	7.28	128.4
8/26/2003 14:30	23.7	98.9	8.4	7.30	128.5
8/26/2003 14:45	23.9	99.4	8.4	7.31	128.4
8/26/2003 15:00	24.1	99.3	8.3	7.33	128.6
8/26/2003 15:15	24.1	99.7	8.4	7.34	128.5
8/26/2003 15:30	24.1	99.8	8.4	7.35	128.6
8/26/2003 15:45	24.2	100.1	8.4	7.36	128.9
8/26/2003 16:00	24.2	99.8	8.4	7.37	129.0
8/26/2003 16:15	24.3	100.7	8.4	7.38	129.0
8/26/2003 16:30	24.3	100.6	8.4	7.40	129.1
8/26/2003 16:45	24.4	100.3	8.4	7.39	129.0
8/26/2003 17:00	24.4	99.9	8.3	7.39	129.2
8/26/2003 17:15	24.3	99.4	8.3	7.36	129.2
8/26/2003 17:30	24.2	98.8	8.3	7.35	129.1
8/26/2003 17:45	24.2	98.2	8.2	7.34	128.9
8/26/2003 18:00	24.2	97.8	8.2	7.33	128.8
8/26/2003 18:15	24.1	97.6	8.2	7.33	128.5
8/26/2003 18:30	24.1	97.0	8.2	7.33	128.6
8/26/2003 18:45	24.1	97.1	8.2	7.31	129.0
8/26/2003 19:00	24.0	95.9	8.1	7.30	128.8
8/26/2003 19:15	24.0	96.2	8.1	7.29	128.7
8/26/2003 19:30	24.0	96.2	8.1	7.28	128.7
8/26/2003 19:45	23.9	95.7	8.1	7.27	128.9
8/26/2003 20:00	23.9	95.2	8.0	7.27	128.8
8/26/2003 20:15	23.9	94.9	8.0	7.27	128.7
8/26/2003 20:30	23.8	95.1	8.0	7.26	128.9
8/26/2003 20:45	23.8	94.5	8.0	7.26	129.0
8/26/2003 21:00	23.8	94.7	8.0	7.26	129.0
8/26/2003 21:15	23.8	94.2	8.0	7.25	128.8
8/26/2003 21:30	23.7	94.1	8.0	7.25	129.0
8/26/2003 21:45	23.7	93.7	7.9	7.25	129.0

8/26/2003 22:00	23.7	93.4	7.9	7.24	129.1
8/26/2003 22:15	23.6	93.3	7.9	7.24	129.1
8/26/2003 22:30	23.6	93.4	7.9	7.23	129.3
8/26/2003 22:45	23.6	92.8	7.9	7.22	129.2
8/26/2003 23:00	23.5	93.3	7.9	7.22	129.2
8/26/2003 23:15	23.5	93.0	7.9	7.22	129.1
8/26/2003 23:30	23.5	92.7	7.9	7.21	129.3
8/26/2003 23:45	23.4	92.6	7.9	7.20	129.1
8/27/2003 0:00	23.4	92.2	7.9	7.20	129.1
8/27/2003 0:15	23.3	92.3	7.9	7.19	129.3
8/27/2003 0:30	23.3	91.7	7.8	7.18	129.1
8/27/2003 0:45	23.2	91.7	7.8	7.18	129.2
8/27/2003 1:00	23.2	91.0	7.8	7.17	129.1
8/27/2003 1:15	23.1	90.5	7.8	7.16	129.2
8/27/2003 1:30	23.0	90.4	7.7	7.16	129.1
8/27/2003 1:45	23.0	90.5	7.8	7.15	129.2
8/27/2003 2:00	22.9	90.0	7.7	7.15	129.5
8/27/2003 2:15	22.9	90.0	7.7	7.14	129.5
8/27/2003 2:30	22.8	89.7	7.7	7.14	129.5
8/27/2003 2:45	22.7	89.0	7.7	7.13	129.5
8/27/2003 3:00	22.7	89.3	7.7	7.13	129.5
8/27/2003 3:15	22.6	88.9	7.7	7.12	129.5
8/27/2003 3:30	22.6	88.9	7.7	7.12	129.4
8/27/2003 3:45	22.5	88.6	7.7	7.12	129.5
8/27/2003 4:00	22.5	88.1	7.6	7.11	129.6
8/27/2003 4:15	22.4	87.7	7.6	7.11	129.6
8/27/2003 4:30	22.4	87.8	7.6	7.10	129.4
8/27/2003 4:45	22.3	87.4	7.6	7.10	129.5
8/27/2003 5:00	22.3	87.1	7.6	7.10	129.5
8/27/2003 5:15	22.2	87.3	7.6	7.09	129.5
8/27/2003 5:30	22.2	87.2	7.6	7.09	129.5
8/27/2003 5:45	22.1	86.8	7.6	7.09	129.5
8/27/2003 6:00	22.1	87.0	7.6	7.08	129.5
8/27/2003 6:15	22.1	87.5	7.6	7.09	129.5
8/27/2003 6:30	22.1	87.4	7.6	7.09	129.6
8/27/2003 6:45	22.0	87.4	7.6	7.09	129.6
8/27/2003 7:00	22.0	87.9	7.7	7.09	129.5
8/27/2003 7:15	22.0	87.5	7.7	7.09	129.5
8/27/2003 7:30	22.0	87.8	7.7	7.10	129.5
8/27/2003 7:45	22.0	88.3	7.7	7.10	129.4
8/27/2003 8:00	22.0	88.1	7.7	7.11	129.7
8/27/2003 8:15	22.0	88.3	7.7	7.11	129.6
8/27/2003 8:30	22.0	88.4	7.7	7.11	129.6
8/27/2003 8:45	22.1	88.5	7.7	7.12	129.5
8/27/2003 9:00	22.1	88.3	7.7	7.12	129.5
8/27/2003 9:15	22.1	89.0	7.8	7.12	129.7
8/27/2003 9:30	22.1	89.2	7.8	7.12	129.7
8/27/2003 9:45	22.1	89.1	7.8	7.13	129.4
8/27/2003 10:00	22.2	89.4	7.8	7.13	129.5
8/27/2003 10:15	22.3	88.8	7.7	7.12	129.5
8/27/2003 10:30	22.4	89.3	7.8	7.13	129.5

8/27/2003 10:45	22.4	90.0	7.8	7.13	129.6
8/27/2003 11:00	22.5	90.2	7.8	7.15	129.5
8/27/2003 11:15	22.6	91.4	7.9	7.17	129.7
8/27/2003 11:30	22.7	92.2	8.0	7.19	129.6
8/27/2003 11:45	22.9	92.3	7.9	7.20	129.8
8/27/2003 12:00	23.0	92.6	7.9	7.20	129.8
8/27/2003 12:15	23.1	93.5	8.0	7.22	129.8
8/27/2003 12:30	23.2	93.5	8.0	7.23	129.9
8/27/2003 12:45	23.3	94.2	8.0	7.24	130.0
8/27/2003 13:00	23.4	94.3	8.0	7.24	130.0
8/27/2003 13:15	23.6	94.6	8.0	7.25	130.0
8/27/2003 13:30	23.7	95.1	8.1	7.26	130.1
8/27/2003 13:45	23.9	95.6	8.1	7.28	130.3
8/27/2003 14:00	24.1	96.5	8.1	7.30	130.2
8/27/2003 14:15	24.2	96.6	8.1	7.32	130.3
8/27/2003 14:30	24.3	97.3	8.1	7.34	130.4
8/27/2003 14:45	24.4	97.3	8.1	7.36	130.4
8/27/2003 15:00	24.4	97.6	8.2	7.38	130.4
8/27/2003 15:15	24.6	91.2	7.6	7.78	
8/27/2003 15:30	24.4	97.0	8.1	7.40	130.1
8/27/2003 15:45	24.5	97.4	8.1	7.39	130.2
8/27/2003 16:00	24.5	96.8	8.1	7.38	130.3
8/27/2003 16:15	24.4	96.0	8.0	7.37	130.8
8/27/2003 16:30	24.4	96.5	8.1	7.38	130.6
8/27/2003 16:45	24.5	96.7	8.1	7.39	130.5
8/27/2003 17:00	24.5	97.4	8.1	7.41	130.5
8/27/2003 17:15	24.6	96.8	8.1	7.42	130.3
8/27/2003 17:30	24.6	97.3	8.1	7.42	130.3
8/27/2003 17:45	24.5	96.6	8.1	7.41	130.3
8/27/2003 18:00	24.4	95.9	8.0	7.39	130.4
8/27/2003 18:15	24.4	94.8	7.9	7.37	130.5
8/27/2003 18:30	24.4	94.1	7.9	7.35	130.5
8/27/2003 18:45	24.3	93.8	7.8	7.34	130.5
8/27/2003 19:00	24.3	93.3	7.8	7.33	130.6
8/27/2003 19:15	24.3	93.5	7.8	7.32	130.6
8/27/2003 19:30	24.2	92.8	7.8	7.30	130.6
8/27/2003 19:45	24.2	92.9	7.8	7.30	130.6
8/27/2003 20:00	24.2	92.8	7.8	7.29	130.6
8/27/2003 20:15	24.2	92.4	7.7	7.29	130.5
8/27/2003 20:30	24.2	92.6	7.8	7.28	130.4
8/27/2003 20:45	24.2	92.5	7.8	7.27	130.5
8/27/2003 21:00	24.2	92.1	7.7	7.28	130.5
8/27/2003 21:15	24.2	91.8	7.7	7.27	130.6
8/27/2003 21:30	24.2	91.3	7.7	7.26	130.5
8/27/2003 21:45	24.1	91.2	7.7	7.26	130.5
8/27/2003 22:00	24.1	90.9	7.6	7.25	130.6
8/27/2003 22:15	24.1	91.1	7.7	7.25	130.6
8/27/2003 22:30	24.0	90.7	7.6	7.25	130.8
8/27/2003 22:45	24.0	90.8	7.6	7.25	130.6
8/27/2003 23:00	24.0	90.4	7.6	7.24	130.7
8/27/2003 23:15	23.9	90.7	7.7	7.24	130.6

8/27/2003 23:30	23.9	90.4	7.6	7.24	130.7
8/27/2003 23:45	23.8	89.9	7.6	7.23	130.8
8/28/2003 0:00	23.8	89.3	7.5	7.22	130.8
8/28/2003 0:15	23.8	89.5	7.6	7.22	130.9
8/28/2003 0:30	23.7	89.2	7.5	7.22	130.9
8/28/2003 0:45	23.7	89.1	7.5	7.21	130.8
8/28/2003 1:00	23.6	88.8	7.5	7.21	131.0
8/28/2003 1:15	23.6	89.0	7.6	7.21	130.8
8/28/2003 1:30	23.5	88.6	7.5	7.20	131.0
8/28/2003 1:45	23.5	88.7	7.5	7.20	130.9
8/28/2003 2:00	23.4	88.4	7.5	7.19	131.1
8/28/2003 2:15	23.4	88.3	7.5	7.19	131.0
8/28/2003 2:30	23.3	88.2	7.5	7.19	131.0
8/28/2003 2:45	23.3	87.9	7.5	7.18	131.0
8/28/2003 3:00	23.2	88.2	7.5	7.18	130.9
8/28/2003 3:15	23.1	88.0	7.5	7.18	131.0
8/28/2003 3:30	23.1	87.3	7.5	7.17	131.0
8/28/2003 3:45	23.0	87.3	7.5	7.17	130.9
8/28/2003 4:00	23.0	87.4	7.5	7.17	131.1
8/28/2003 4:15	22.9	87.3	7.5	7.16	131.1
8/28/2003 4:30	22.8	87.1	7.5	7.16	131.0
8/28/2003 4:45	22.8	87.0	7.5	7.15	131.0
8/28/2003 5:00	22.7	86.6	7.5	7.15	131.0
8/28/2003 5:15	22.7	86.6	7.5	7.14	131.1
8/28/2003 5:30	22.6	85.8	7.4	7.13	131.0
8/28/2003 5:45	22.6	86.1	7.4	7.14	131.1
8/28/2003 6:00	22.5	85.8	7.4	7.13	131.1
8/28/2003 6:15	22.4	85.8	7.4	7.13	131.2
8/28/2003 6:30	22.4	85.5	7.4	7.13	131.2
8/28/2003 6:45	22.3	85.6	7.4	7.13	131.0
8/28/2003 7:00	22.3	85.6	7.4	7.13	131.1
8/28/2003 7:15	22.3	86.0	7.5	7.12	131.2
8/28/2003 7:30	22.2	85.7	7.5	7.13	131.2
8/28/2003 7:45	22.2	86.0	7.5	7.13	131.2
8/28/2003 8:00	22.2	86.1	7.5	7.13	131.3
8/28/2003 8:15	22.2	86.4	7.5	7.14	131.1
8/28/2003 8:30	22.2	86.6	7.5	7.14	131.2
8/28/2003 8:45	22.2	86.4	7.5	7.14	131.3
8/28/2003 9:00	22.1	86.9	7.6	7.14	131.2
8/28/2003 9:15	22.1	86.9	7.6	7.14	131.3
8/28/2003 9:30	22.1	86.6	7.6	7.14	131.4
8/28/2003 9:45	22.1	87.2	7.6	7.15	131.4
8/28/2003 10:00	22.1	87.7	7.7	7.16	131.5
8/28/2003 10:15	22.1	88.1	7.7	7.17	131.6
8/28/2003 10:30	22.1	88.9	7.8	7.18	131.5
8/28/2003 10:45	22.1	89.4	7.8	7.19	131.5
8/28/2003 11:00	22.2	89.9	7.8	7.19	131.4
8/28/2003 11:15	22.2	89.7	7.8	7.20	131.5
8/28/2003 11:30	22.3	89.6	7.8	7.20	131.4
8/28/2003 11:45	22.3	90.4	7.9	7.21	131.3
8/28/2003 12:00	22.3	91.2	7.9	7.22	131.4

8/28/2003 12:15	22.4	90.9	7.9	7.23	131.4
8/28/2003 12:30	22.5	91.6	7.9	7.24	131.4
8/28/2003 12:45	22.5	92.1	8.0	7.26	131.3
8/28/2003 13:00	22.5	92.8	8.0	7.27	131.2
8/28/2003 13:15	22.5	93.4	8.1	7.28	131.3
8/28/2003 13:30	22.6	94.3	8.2	7.30	131.2
8/28/2003 13:45	22.6	94.5	8.2	7.31	131.2
8/28/2003 14:00	22.6	94.5	8.2	7.32	131.1
8/28/2003 14:15	22.7	94.4	8.2	7.32	131.2
8/28/2003 14:30	22.7	95.4	8.2	7.33	131.2
8/28/2003 14:45	22.7	95.4	8.2	7.34	131.2
8/28/2003 15:00	22.7	95.0	8.2	7.34	131.2
8/28/2003 15:15	22.8	95.2	8.2	7.34	131.1
8/28/2003 15:30	22.9	95.7	8.2	7.35	131.0
8/28/2003 15:45	22.9	96.5	8.3	7.36	131.1
8/28/2003 16:00	22.9	96.4	8.3	7.36	131.0
8/28/2003 16:15	22.9	96.3	8.3	7.37	131.0
8/28/2003 16:30	23.0	96.1	8.2	7.37	130.9
8/28/2003 16:45	23.0	96.9	8.3	7.39	130.9
8/28/2003 17:00	23.0	96.9	8.3	7.39	130.9
8/28/2003 17:15	23.0	97.1	8.3	7.40	130.9
8/28/2003 17:30	22.9	96.9	8.3	7.38	130.9
8/28/2003 17:45	22.9	96.6	8.3	7.38	131.0
8/28/2003 18:00	22.8	95.9	8.3	7.36	130.9
8/28/2003 18:15	22.8	95.5	8.2	7.35	130.8
8/28/2003 18:30	22.7	95.0	8.2	7.34	130.9
8/28/2003 18:45	22.7	94.2	8.1	7.32	130.9
8/28/2003 19:00	22.6	93.7	8.1	7.32	130.9
8/28/2003 19:15	22.6	93.6	8.1	7.31	130.8
8/28/2003 19:30	22.5	92.9	8.0	7.29	130.7
8/28/2003 19:45	22.5	92.2	8.0	7.28	130.6
8/28/2003 20:00	22.4	92.5	8.0	7.27	130.7
8/28/2003 20:15	22.4	92.4	8.0	7.27	130.8
8/28/2003 20:30	22.4	92.4	8.0	7.27	130.7
8/28/2003 20:45	22.3	91.8	8.0	7.26	130.8
8/28/2003 21:00	22.3	91.5	8.0	7.26	130.7
8/28/2003 21:15	22.2	91.8	8.0	7.25	130.7
8/28/2003 21:30	22.2	91.8	8.0	7.25	130.7
8/28/2003 21:45	22.2	91.6	8.0	7.24	130.7
8/28/2003 22:00	22.1	91.0	7.9	7.24	130.8
8/28/2003 22:15	22.1	91.2	8.0	7.24	130.7
8/28/2003 22:30	22.0	91.1	8.0	7.23	130.7
8/28/2003 22:45	22.0	90.7	7.9	7.23	130.9
8/28/2003 23:00	22.0	90.4	7.9	7.22	131.0
8/28/2003 23:15	21.9	89.4	7.8	7.21	130.8
8/28/2003 23:30	21.9	90.0	7.9	7.21	130.9
8/28/2003 23:45	21.9	89.7	7.9	7.21	131.1
8/29/2003 0:00	21.8	89.2	7.8	7.20	131.2
8/29/2003 0:15	21.8	89.1	7.8	7.20	131.2
8/29/2003 0:30	21.8	89.1	7.8	7.19	131.4
8/29/2003 0:45	21.7	88.8	7.8	7.19	131.3

8/29/2003 1:00	21.7	88.4	7.8	7.18	131.5
8/29/2003 1:15	21.6	88.8	7.8	7.18	131.5
8/29/2003 1:30	21.6	88.5	7.8	7.18	131.6
8/29/2003 1:45	21.6	88.5	7.8	7.17	131.7
8/29/2003 2:00	21.5	88.4	7.8	7.17	131.9
8/29/2003 2:15	21.5	88.1	7.8	7.17	131.9
8/29/2003 2:30	21.5	87.6	7.7	7.16	132.1
8/29/2003 2:45	21.4	87.5	7.7	7.16	132.2
8/29/2003 3:00	21.4	87.2	7.7	7.15	132.4
8/29/2003 3:15	21.3	87.3	7.7	7.15	132.3
8/29/2003 3:30	21.3	86.9	7.7	7.14	132.3
8/29/2003 3:45	21.3	86.7	7.7	7.14	132.4
8/29/2003 4:00	21.2	86.5	7.7	7.14	126.0
8/29/2003 4:15	21.2	86.7	7.7	7.13	132.3
8/29/2003 4:30	21.1	86.6	7.7	7.12	132.4
8/29/2003 4:45	21.1	86.2	7.7	7.12	132.3
8/29/2003 5:00	21.0	85.8	7.6	7.11	132.6
8/29/2003 5:15	21.0	85.7	7.6	7.10	132.4
8/29/2003 5:30	21.0	85.2	7.6	7.09	132.4
8/29/2003 5:45	20.9	84.9	7.6	7.08	132.6
8/29/2003 6:00	20.9	84.2	7.5	7.07	133.0
8/29/2003 6:15	20.8	84.7	7.6	7.07	132.8
8/29/2003 6:30	20.8	85.1	7.6	7.08	132.6
8/29/2003 6:45	20.7	85.7	7.7	7.10	132.3
8/29/2003 7:00	20.7	86.2	7.7	7.10	132.2
8/29/2003 7:15	20.7	86.5	7.8	7.11	131.9
8/29/2003 7:30	20.7	87.2	7.8	7.12	131.8
8/29/2003 7:45	20.7	87.0	7.8	7.12	132.1
8/29/2003 8:00	20.7	87.0	7.8	7.13	132.1
8/29/2003 8:15	20.8	87.2	7.8	7.13	132.3
8/29/2003 8:30	20.7	86.7	7.8	7.11	132.7
8/29/2003 8:45	19.3	89.0	8.2	7.16	136.1
8/29/2003 9:00	18.7	88.3	8.2	7.17	136.8
8/29/2003 9:15	18.5	88.6	8.3	7.17	137.8
8/29/2003 9:30	18.4	88.2	8.3	7.18	138.5
8/29/2003 9:45	18.5	88.6	8.3	7.18	139.6
8/29/2003 10:00	18.6	88.8	8.3	7.18	140.5
8/29/2003 10:15	19.7	86.4	7.9	7.08	142.1
8/29/2003 10:30	19.9	89.2	8.1	7.07	141.8
8/29/2003 10:45	20.0	86.3	7.9	7.07	142.0
8/29/2003 11:00	19.9	97.3	8.9	7.18	0.0
8/29/2003 11:15	20.5	93.9	8.4	7.36	142.6
8/29/2003 11:30	20.8	93.3	8.4	7.33	144.5
8/29/2003 11:45	21.9	90.9	8.0	7.31	148.7
8/29/2003 12:00	22.4	93.6	8.1	7.46	0.0
8/29/2003 12:15	21.8	97.6	8.6	7.64	0.1
8/29/2003 12:30	21.6	97.4	8.6	7.42	0.1
8/29/2003 12:45	21.8	95.0	8.3	7.25	0.1
8/29/2003 13:00	22.5	95.9	8.3	7.42	0.4

MiniSonde 4a 39672
 Log File Name: bfc082003.3

Site: Lamprey River ~ 200 feet downstream from Beaver Brook confluence

Water Depth (max) ~ 1.0 feet
 Water Depth (at DataSonde location) ~ 4.0 feet
 DataSonde Depth ~ 3.0 feet
 blue = deployment/retrieval times

Date/Time	Temp °C	DO% Sat	DO mg/l	pH Units	SpCond uS/cm
8/25/2003 11:00	23.51	103.1	8.76	7.99	0.1
8/25/2003 11:15	24.87	103.2	8.54	7.91	0.1
8/25/2003 11:30	25.32	102.5	8.42	7.86	0
8/25/2003 11:45	25.3	100.9	8.29	7.85	0
8/25/2003 12:00	25.27	100.5	8.26	7.85	0
8/25/2003 12:15	21.02	90.6	8.07	7.04	168.6
8/25/2003 12:30	21.08	90.9	8.08	6.95	169.1
8/25/2003 12:45	21.21	91.1	8.08	6.95	168.9
8/25/2003 13:00	21.29	90.7	8.03	6.95	168.9
8/25/2003 13:15	21.41	91.3	8.07	6.95	168.6
8/25/2003 13:30	25.34	104	8.54	7.78	0.3
8/25/2003 13:45	26.74	102.5	8.21	7.83	0.1
8/25/2003 14:00	21.45	83.8	7.4	6.82	162.2
8/25/2003 14:15	20.84	85.4	7.63	6.78	163.2
8/25/2003 14:30	20.75	84.7	7.59	6.78	163.1
8/25/2003 14:45	20.82	85.1	7.61	6.78	162.9
8/25/2003 15:00	20.8	85.2	7.62	6.79	162.7
8/25/2003 15:15	20.84	85.9	7.68	6.79	162.6
8/25/2003 15:30	20.91	86.3	7.7	6.79	163.1
8/25/2003 15:45	20.92	86.3	7.7	6.79	162.7
8/25/2003 16:00	20.94	85.9	7.66	6.8	162.6
8/25/2003 16:15	20.98	85.8	7.65	6.8	162.4
8/25/2003 16:30	20.96	86.6	7.73	6.8	162.3
8/25/2003 16:45	21.11	86.9	7.73	6.81	162.5
8/25/2003 17:00	21.1	87.5	7.78	6.81	162.5
8/25/2003 17:15	21.05	86.2	7.67	6.81	162.2
8/25/2003 17:30	21.06	87.2	7.76	6.81	162.5
8/25/2003 17:45	21.14	87.2	7.75	6.82	162.5
8/25/2003 18:00	21.1	87.3	7.76	6.82	162.2
8/25/2003 18:15	21.15	87.1	7.74	6.82	162.4
8/25/2003 18:30	21.17	87	7.73	6.82	162.4
8/25/2003 18:45	21.29	87.3	7.74	6.83	162.5
8/25/2003 19:00	21.26	87.6	7.77	6.83	162.4
8/25/2003 19:15	21.28	88.4	7.83	6.83	162.5
8/25/2003 19:30	21.34	87.6	7.75	6.83	162.4
8/25/2003 19:45	21.35	87.8	7.77	6.83	162.4
8/25/2003 20:00	21.44	88.2	7.79	6.84	162.6
8/25/2003 20:15	21.51	88.2	7.79	6.84	162.6

8/25/2003 20:30	21.47	87.8	7.75	6.84	162.5
8/25/2003 20:45	21.49	88.8	7.84	6.84	162.7
8/25/2003 21:00	21.51	88.3	7.79	6.85	162.6
8/25/2003 21:15	21.51	88.2	7.79	6.85	162.5
8/25/2003 21:30	21.52	88.2	7.78	6.85	162.9
8/25/2003 21:45	21.53	88.1	7.77	6.84	162.8
8/25/2003 22:00	21.52	87.9	7.75	6.84	162.8
8/25/2003 22:15	21.53	87.1	7.68	6.84	162.8
8/25/2003 22:30	21.48	87.2	7.7	6.84	162.7
8/25/2003 22:45	21.5	86.6	7.64	6.84	162.8
8/25/2003 23:00	21.49	86.7	7.65	6.83	162.8
8/25/2003 23:15	21.49	86.4	7.62	6.83	162.9
8/25/2003 23:30	21.47	86.4	7.62	6.83	162.9
8/25/2003 23:45	21.45	86.5	7.64	6.83	163
8/26/2003 0:00	21.43	86	7.6	6.82	162.8
8/26/2003 0:15	21.39	85.3	7.54	6.81	162.6
8/26/2003 0:30	21.38	85.2	7.53	6.81	162.8
8/26/2003 0:45	21.37	85.1	7.53	6.81	163
8/26/2003 1:00	21.34	84.9	7.51	6.81	163
8/26/2003 1:15	21.31	84	7.43	6.8	162.9
8/26/2003 1:30	21.28	83.6	7.41	6.8	163
8/26/2003 1:45	21.25	83.3	7.39	6.8	163.1
8/26/2003 2:00	21.23	83.4	7.4	6.8	163.2
8/26/2003 2:15	21.21	82.4	7.31	6.79	163.2
8/26/2003 2:30	21.18	82.6	7.33	6.8	163.1
8/26/2003 2:45	21.15	81.7	7.26	6.78	163.3
8/26/2003 3:00	21.13	81.9	7.28	6.79	163.2
8/26/2003 3:15	21.1	81.9	7.28	6.79	163.2
8/26/2003 3:30	21.07	80.7	7.18	6.78	163.3
8/26/2003 3:45	21.04	80.7	7.19	6.77	163.3
8/26/2003 4:00	21.02	80.7	7.18	6.77	163.3
8/26/2003 4:15	20.99	80.9	7.21	6.77	163.3
8/26/2003 4:30	20.95	80.2	7.15	6.77	163.5
8/26/2003 4:45	20.92	80.1	7.15	6.77	163.5
8/26/2003 5:00	20.88	80.2	7.17	6.76	163.4
8/26/2003 5:15	20.87	79.1	7.07	6.76	163.4
8/26/2003 5:30	20.82	79.4	7.1	6.76	163.4
8/26/2003 5:45	20.8	79.3	7.1	6.76	163.4
8/26/2003 6:00	20.77	79	7.07	6.76	163.6
8/26/2003 6:15	20.75	79.5	7.11	6.75	163.5
8/26/2003 6:30	20.72	79.2	7.09	6.75	163.6
8/26/2003 6:45	20.69	78.6	7.05	6.75	163.8
8/26/2003 7:00	20.66	78.9	7.08	6.75	163.5
8/26/2003 7:15	20.64	78.7	7.07	6.75	163.7
8/26/2003 7:30	20.62	78.7	7.06	6.75	163.8
8/26/2003 7:45	20.61	78.6	7.05	6.75	163.6
8/26/2003 8:00	20.58	79.1	7.1	6.75	163.7
8/26/2003 8:15	20.58	78.4	7.04	6.74	163.7
8/26/2003 8:30	20.57	78.7	7.07	6.74	163.6
8/26/2003 8:45	20.57	78.4	7.04	6.74	163.9
8/26/2003 9:00	20.56	79.2	7.12	6.74	163.8

8/26/2003 9:15	20.56	78.4	7.05	6.74	163.8
8/26/2003 9:30	20.54	79.1	7.11	6.74	163.7
8/26/2003 9:45	20.55	78.8	7.08	6.73	163.8
8/26/2003 10:00	20.55	79.1	7.11	6.74	164
8/26/2003 10:15	20.54	80.1	7.21	6.74	164.1
8/26/2003 10:30	20.54	79.1	7.11	6.74	164
8/26/2003 10:45	20.55	80	7.2	6.75	164.1
8/26/2003 11:00	20.57	79.6	7.16	6.74	164.1
8/26/2003 11:15	20.57	80.5	7.23	6.75	164.1
8/26/2003 11:30	20.57	80.7	7.25	6.75	164.2
8/26/2003 11:45	20.59	81.2	7.29	6.74	164.2
8/26/2003 12:00	20.63	80.8	7.25	6.75	164.3
8/26/2003 12:15	20.65	81.7	7.33	6.75	164.2
8/26/2003 12:30	20.72	82.2	7.36	6.76	164.2
8/26/2003 12:45	20.72	82	7.34	6.76	164.3
8/26/2003 13:00	20.77	82.7	7.4	6.76	164.5
8/26/2003 13:15	20.79	83.2	7.44	6.76	164.6
8/26/2003 13:30	20.83	83.6	7.48	6.77	164.4
8/26/2003 13:45	20.9	84.1	7.51	6.77	164.7
8/26/2003 14:00	20.97	84.8	7.56	6.78	164.8
8/26/2003 14:15	20.97	85.4	7.61	6.78	164.6
8/26/2003 14:30	21.02	85.4	7.61	6.78	164.9
8/26/2003 14:45	21.04	85.8	7.64	6.79	165.1
8/26/2003 15:00	21.05	85.5	7.61	6.79	165.2
8/26/2003 15:15	21.09	85.7	7.62	6.79	165
8/26/2003 15:30	21.08	86.1	7.66	6.79	165
8/26/2003 15:45	21.13	86.6	7.7	6.79	165
8/26/2003 16:00	21.13	86.6	7.7	6.8	165
8/26/2003 16:15	21.18	88.2	7.83	6.81	165.1
8/26/2003 16:30	21.22	87.6	7.77	6.81	165
8/26/2003 16:45	21.27	87.9	7.79	6.81	165.3
8/26/2003 17:00	21.29	88.5	7.84	6.82	165.3
8/26/2003 17:15	21.31	88.4	7.83	6.81	165.3
8/26/2003 17:30	21.32	88.5	7.84	6.82	165.4
8/26/2003 17:45	21.41	89.1	7.87	6.82	165.5
8/26/2003 18:00	21.42	89.1	7.87	6.83	165.3
8/26/2003 18:15	21.47	90	7.94	6.83	165.7
8/26/2003 18:30	21.5	89.7	7.91	6.83	165.7
8/26/2003 18:45	21.57	90.3	7.96	6.83	165.8
8/26/2003 19:00	21.64	90.6	7.97	6.83	165.6
8/26/2003 19:15	21.63	90.5	7.96	6.84	165.6
8/26/2003 19:30	21.65	90.4	7.95	6.84	165.6
8/26/2003 19:45	21.67	90.4	7.95	6.84	165.7
8/26/2003 20:00	21.74	90.7	7.97	6.84	165.9
8/26/2003 20:15	21.78	90.5	7.94	6.85	165.8
8/26/2003 20:30	21.88	90.7	7.95	6.85	165.8
8/26/2003 20:45	21.94	91.4	7.99	6.85	165.8
8/26/2003 21:00	22	90.8	7.93	6.86	165.9
8/26/2003 21:15	21.98	91.1	7.96	6.85	166
8/26/2003 21:30	21.96	90.4	7.91	6.85	166
8/26/2003 21:45	22.01	90.9	7.94	6.86	166

8/26/2003 22:00	22.04	91.2	7.96	6.86	166.2
8/26/2003 22:15	22.04	90.8	7.93	6.86	166.2
8/26/2003 22:30	22.05	90.6	7.91	6.85	166.3
8/26/2003 22:45	22.04	90.2	7.87	6.86	166.1
8/26/2003 23:00	22.03	90.6	7.91	6.85	166.1
8/26/2003 23:15	22	90.5	7.91	6.85	166
8/26/2003 23:30	21.99	89.6	7.83	6.85	166.1
8/26/2003 23:45	21.95	89.9	7.87	6.85	166.1
8/27/2003 0:00	21.96	89	7.78	6.85	166.2
8/27/2003 0:15	21.92	89.1	7.8	6.84	166.2
8/27/2003 0:30	21.92	88.2	7.72	6.84	166.2
8/27/2003 0:45	21.89	88.1	7.72	6.84	166.3
8/27/2003 1:00	21.87	88.2	7.72	6.84	166.1
8/27/2003 1:15	21.84	87.6	7.68	6.83	166.1
8/27/2003 1:30	21.81	87.8	7.7	6.83	166.2
8/27/2003 1:45	21.79	87.4	7.67	6.83	166.1
8/27/2003 2:00	21.78	86.8	7.62	6.83	166.2
8/27/2003 2:15	21.74	86.7	7.61	6.82	166.3
8/27/2003 2:30	21.74	86.4	7.59	6.83	166.4
8/27/2003 2:45	21.71	86	7.56	6.82	166.3
8/27/2003 3:00	21.7	86	7.56	6.82	166.4
8/27/2003 3:15	21.66	85.1	7.49	6.81	166.3
8/27/2003 3:30	21.66	84.2	7.4	6.81	166.5
8/27/2003 3:45	21.64	84.1	7.4	6.81	166.5
8/27/2003 4:00	21.63	83.5	7.35	6.8	166.6
8/27/2003 4:15	21.62	83.2	7.33	6.8	166.7
8/27/2003 4:30	21.58	83.2	7.33	6.79	166.5
8/27/2003 4:45	21.57	83.4	7.34	6.79	166.4
8/27/2003 5:00	21.55	82.9	7.31	6.79	166.5
8/27/2003 5:15	21.53	82.4	7.27	6.79	166.6
8/27/2003 5:30	21.53	82	7.23	6.79	166.7
8/27/2003 5:45	21.52	81.6	7.2	6.78	166.9
8/27/2003 6:00	21.5	81.5	7.19	6.78	166.8
8/27/2003 6:15	21.49	81	7.15	6.78	167
8/27/2003 6:30	21.48	80.9	7.14	6.77	167
8/27/2003 6:45	21.46	80.9	7.14	6.77	167
8/27/2003 7:00	21.45	79.9	7.05	6.77	167.1
8/27/2003 7:15	21.44	79.9	7.06	6.77	166.9
8/27/2003 7:30	21.44	80.2	7.08	6.77	167.1
8/27/2003 7:45	21.43	79.6	7.03	6.77	167.1
8/27/2003 8:00	21.44	79.7	7.04	6.76	167.2
8/27/2003 8:15	21.42	79.5	7.03	6.76	166.9
8/27/2003 8:30	21.42	79.8	7.05	6.76	167
8/27/2003 8:45	21.4	79	6.99	6.76	166.9
8/27/2003 9:00	21.42	79.2	7	6.76	167
8/27/2003 9:15	21.42	78.9	6.98	6.75	167
8/27/2003 9:30	21.4	79	6.99	6.75	167
8/27/2003 9:45	21.44	79.2	7	6.75	166.9
8/27/2003 10:00	21.45	78.9	6.97	6.75	167.1
8/27/2003 10:15	21.44	79.4	7.01	6.75	167.1
8/27/2003 10:30	21.5	79.7	7.03	6.75	167.1

8/27/2003 10:45	21.51	79.5	7.01	6.75	167.2
8/27/2003 11:00	21.51	79.5	7.01	6.75	167
8/27/2003 11:15	21.56	79.7	7.03	6.75	167.2
8/27/2003 11:30	21.58	79.5	7.01	6.75	166.9
8/27/2003 11:45	21.6	79.6	7.01	6.75	167.1
8/27/2003 12:00	21.6	80.7	7.1	6.75	167.1
8/27/2003 12:15	21.63	80.8	7.11	6.75	167
8/27/2003 12:30	21.64	80.4	7.07	6.75	167.2
8/27/2003 12:45	21.64	81.1	7.14	6.75	167
8/27/2003 13:00	21.71	81.4	7.15	6.76	167.2
8/27/2003 13:15	21.76	81.4	7.15	6.76	167.2
8/27/2003 13:30	21.79	82.5	7.24	6.76	167
8/27/2003 13:45	21.88	82.7	7.25	6.77	167
8/27/2003 14:00	21.91	83.5	7.31	6.77	167.1
8/27/2003 14:15	21.94	83.3	7.28	6.77	167.1
8/27/2003 14:30	21.94	83.7	7.33	6.77	167.2
8/27/2003 14:45	21.98	83.9	7.33	6.78	167.1
8/27/2003 15:00	22	84.1	7.35	6.77	167.3
8/27/2003 15:15	22.01	84.9	7.42	6.78	167.2
8/27/2003 15:30	22.02	84	7.34	6.77	167.3
8/27/2003 15:45	22.08	84.4	7.37	6.77	167.2
8/27/2003 16:00	22.12	85.7	7.47	6.78	132.4
8/27/2003 16:15	22.07	85.1	7.43	6.78	134.8
8/27/2003 16:30	22.12	86.6	7.55	6.79	135.7
8/27/2003 16:45	22.17	86.1	7.5	6.78	136.4
8/27/2003 17:00	22.17	86.7	7.55	6.78	137.5
8/27/2003 17:15	22.2	86.7	7.55	6.79	137.8
8/27/2003 17:30	22.2	87.4	7.61	6.8	138.4
8/27/2003 17:45	22.27	87.4	7.6	6.8	139.3
8/27/2003 18:00	22.26	87.2	7.58	6.8	139.3
8/27/2003 18:15	22.32	87.6	7.6	6.8	140.2
8/27/2003 18:30	22.33	88.1	7.65	6.81	140.1
8/27/2003 18:45	22.44	88.9	7.71	6.81	140.8
8/27/2003 19:00	22.47	89	7.71	6.81	141.5
8/27/2003 19:15	22.51	88.9	7.69	6.81	142.3
8/27/2003 19:30	22.56	89.5	7.74	6.82	143
8/27/2003 19:45	22.57	89.5	7.74	6.82	143.1
8/27/2003 20:00	22.62	89.8	7.75	6.82	143.8
8/27/2003 20:15	22.66	89.9	7.75	6.82	144.1
8/27/2003 20:30	22.66	90.1	7.77	6.82	144.2
8/27/2003 20:45	22.69	90.3	7.79	6.83	144.9
8/27/2003 21:00	22.73	90.6	7.81	6.83	145.8
8/27/2003 21:15	22.77	90.6	7.8	6.83	146
8/27/2003 21:30	22.77	90.1	7.76	6.83	146.7
8/27/2003 21:45	22.78	90.3	7.77	6.84	147.5
8/27/2003 22:00	22.84	90.8	7.81	6.84	147.7
8/27/2003 22:15	22.85	91.3	7.85	6.85	147.8
8/27/2003 22:30	22.87	91.2	7.84	6.86	148.6
8/27/2003 22:45	22.85	91.1	7.83	6.85	149.6
8/27/2003 23:00	22.83	90.9	7.82	6.85	150
8/27/2003 23:15	22.79	89.9	7.74	6.84	150.2

8/27/2003 23:30	22.79	90.1	7.75	6.85	150.5
8/27/2003 23:45	22.77	90.4	7.78	6.85	148.5
8/28/2003 0:00	22.75	89.8	7.74	6.85	149.5
8/28/2003 0:15	22.73	89.7	7.73	6.85	149
8/28/2003 0:30	22.7	90.4	7.8	6.85	149.2
8/28/2003 0:45	22.68	90.1	7.78	6.85	149.7
8/28/2003 1:00	22.65	89.9	7.76	6.85	149.8
8/28/2003 1:15	22.61	89.4	7.72	6.85	150.7
8/28/2003 1:30	22.59	88.5	7.65	6.84	150.3
8/28/2003 1:45	22.56	88.9	7.68	6.84	150.9
8/28/2003 2:00	22.51	88.9	7.69	6.84	151.3
8/28/2003 2:15	22.48	88.2	7.64	6.84	151.4
8/28/2003 2:30	22.44	87.6	7.59	6.83	152
8/28/2003 2:45	22.39	87.5	7.59	6.83	152.3
8/28/2003 3:00	22.36	87.2	7.56	6.83	152.4
8/28/2003 3:15	22.31	86.3	7.5	6.82	153.4
8/28/2003 3:30	22.28	86.5	7.52	6.83	153.4
8/28/2003 3:45	22.24	85.3	7.42	6.82	154.1
8/28/2003 4:00	22.21	85.4	7.44	6.82	154
8/28/2003 4:15	22.19	85	7.4	6.82	153.1
8/28/2003 4:30	22.16	84.4	7.35	6.81	153.4
8/28/2003 4:45	22.12	84.1	7.34	6.81	153.4
8/28/2003 5:00	22.09	84	7.32	6.8	154.4
8/28/2003 5:15	22.05	82.9	7.24	6.8	154.1
8/28/2003 5:30	22.03	82.8	7.23	6.8	154.9
8/28/2003 5:45	22.01	82.7	7.22	6.79	155.1
8/28/2003 6:00	21.98	81.7	7.14	6.79	155.2
8/28/2003 6:15	21.94	81.3	7.11	6.78	155.6
8/28/2003 6:30	21.92	81	7.09	6.78	155.4
8/28/2003 6:45	21.89	80.6	7.06	6.78	155.6
8/28/2003 7:00	21.87	80.2	7.02	6.78	156
8/28/2003 7:15	21.85	80.5	7.06	6.78	156.5
8/28/2003 7:30	21.82	79.1	6.94	6.77	156.4
8/28/2003 7:45	21.81	79.5	6.97	6.77	157
8/28/2003 8:00	21.79	78.5	6.89	6.77	158.9
8/28/2003 8:15	21.77	79.2	6.95	6.77	159.1
8/28/2003 8:30	21.76	79	6.93	6.77	159.3
8/28/2003 8:45	21.75	78.8	6.92	6.77	159.2
8/28/2003 9:00	21.73	78.2	6.87	6.76	159.6
8/28/2003 9:15	21.72	78.5	6.9	6.77	159.7
8/28/2003 9:30	21.75	78.9	6.93	6.77	159.8
8/28/2003 9:45	21.77	78.4	6.88	6.77	159.6
8/28/2003 10:00	21.78	78.6	6.9	6.76	160
8/28/2003 10:15	21.77	77.8	6.83	6.76	160.4
8/28/2003 10:30	21.78	78.1	6.85	6.76	160.3
8/28/2003 10:45	21.74	77.9	6.84	6.75	160.1
8/28/2003 11:00	21.77	78.8	6.91	6.76	160.7
8/28/2003 11:15	21.74	77.5	6.81	6.75	160.3
8/28/2003 11:30	21.76	78.1	6.86	6.76	160.4
8/28/2003 11:45	21.78	78.2	6.86	6.76	160.5
8/28/2003 12:00	21.79	78.6	6.89	6.76	161.2

8/28/2003 12:15	21.85	78.4	6.87	6.77	161.2
8/28/2003 12:30	21.9	79.3	6.94	6.77	161.2
8/28/2003 12:45	21.85	78.6	6.89	6.77	161.4
8/28/2003 13:00	21.9	78.6	6.88	6.76	161.4
8/28/2003 13:15	21.93	78.4	6.86	6.77	161.2
8/28/2003 13:30	21.86	78.2	6.85	6.76	160.9
8/28/2003 13:45	21.92	79	6.91	6.76	161.3
8/28/2003 14:00	21.85	78.5	6.88	6.76	161.2
8/28/2003 14:15	21.9	79.2	6.93	6.76	161.3
8/28/2003 14:30	21.93	79.1	6.92	6.76	161.3
8/28/2003 14:45	21.93	78.8	6.89	6.76	161.3
8/28/2003 15:00	21.99	80.3	7.02	6.77	161.6
8/28/2003 15:15	21.99	79.5	6.95	6.77	161.4
8/28/2003 15:30	21.98	79.5	6.95	6.76	161.7
8/28/2003 15:45	21.94	79.9	6.99	6.76	161.6
8/28/2003 16:00	21.96	79.4	6.95	6.76	161.7
8/28/2003 16:15	21.96	80.1	7.01	6.77	161.7
8/28/2003 16:30	21.99	80.2	7.01	6.77	161.9
8/28/2003 16:45	21.99	80.9	7.07	6.77	162.1
8/28/2003 17:00	21.96	80.2	7.02	6.77	162.1
8/28/2003 17:15	21.98	80.5	7.04	6.77	162.4
8/28/2003 17:30	21.97	80.8	7.06	6.77	162.1
8/28/2003 17:45	22	81.5	7.12	6.78	162.4
8/28/2003 18:00	21.99	81.9	7.16	6.78	162.4
8/28/2003 18:15	21.98	81.2	7.1	6.78	162.4
8/28/2003 18:30	21.95	81.7	7.15	6.77	162.5
8/28/2003 18:45	21.96	82.1	7.18	6.78	162.4
8/28/2003 19:00	21.94	81.2	7.1	6.78	162.6
8/28/2003 19:15	21.94	82.2	7.19	6.78	162.6
8/28/2003 19:30	21.96	82.8	7.24	6.78	146.6
8/28/2003 19:45	21.94	82.9	7.25	6.79	147.9
8/28/2003 20:00	21.97	83.5	7.31	6.81	148.3
8/28/2003 20:15	21.94	83.3	7.29	6.81	148.9
8/28/2003 20:30	21.89	82.8	7.25	6.79	149.4
8/28/2003 20:45	21.87	83	7.27	6.81	149.7
8/28/2003 21:00	21.84	83.1	7.29	6.8	148.9
8/28/2003 21:15	21.79	83.3	7.31	6.81	150.1
8/28/2003 21:30	21.77	83.9	7.37	6.82	150.2
8/28/2003 21:45	21.75	84.8	7.44	6.83	150.4
8/28/2003 22:00	21.73	85	7.47	6.83	150.8
8/28/2003 22:15	21.7	84.3	7.41	6.83	151
8/28/2003 22:30	21.68	84.9	7.47	6.83	151.4
8/28/2003 22:45	21.65	84.2	7.4	6.82	151.6
8/28/2003 23:00	21.64	85.4	7.52	6.83	152.1
8/28/2003 23:15	21.62	85.5	7.53	6.83	152.1
8/28/2003 23:30	21.59	85.2	7.51	6.83	152.5
8/28/2003 23:45	21.59	85.8	7.56	6.84	152.6
8/29/2003 0:00	21.56	85	7.49	6.84	153.1
8/29/2003 0:15	21.55	85.7	7.56	6.84	153.3
8/29/2003 0:30	21.52	85.4	7.53	6.84	153.8
8/29/2003 0:45	21.5	85.8	7.57	6.84	153.7

8/29/2003 1:00	21.48	85.6	7.55	6.84	153.9
8/29/2003 1:15	21.46	85.2	7.53	6.83	154
8/29/2003 1:30	21.43	84.6	7.47	6.83	154.1
8/29/2003 1:45	21.41	84.4	7.46	6.83	154.3
8/29/2003 2:00	21.37	84.9	7.51	6.83	154.6
8/29/2003 2:15	21.35	84.6	7.49	6.83	154.8
8/29/2003 2:30	21.3	84.3	7.47	6.83	155.1
8/29/2003 2:45	21.28	84.8	7.52	6.83	155.4
8/29/2003 3:00	21.24	85.3	7.57	6.84	155.5
8/29/2003 3:15	21.24	84.8	7.52	6.84	155.8
8/29/2003 3:30	21.19	85.2	7.56	6.83	156.1
8/29/2003 3:45	21.16	85.1	7.56	6.84	153.6
8/29/2003 4:00	21.13	84.8	7.54	6.84	153.2
8/29/2003 4:15	21.09	84.3	7.5	6.83	154
8/29/2003 4:30	21.03	84.2	7.5	6.84	154.2
8/29/2003 4:45	20.99	84.6	7.54	6.84	154.2
8/29/2003 5:00	20.96	84.4	7.53	6.84	154.4
8/29/2003 5:15	20.91	84.4	7.53	6.83	154.9
8/29/2003 5:30	20.89	83.8	7.48	6.83	155.2
8/29/2003 5:45	20.86	82.6	7.38	6.82	155.3
8/29/2003 6:00	20.81	83.6	7.48	6.83	155.3
8/29/2003 6:15	20.78	82.9	7.42	6.83	155.3
8/29/2003 6:30	20.72	82.4	7.39	6.82	155.5
8/29/2003 6:45	20.68	82.5	7.39	6.82	155.3
8/29/2003 7:00	20.63	81.7	7.33	6.82	155.7
8/29/2003 7:15	20.6	82	7.37	6.81	156.1
8/29/2003 7:30	20.56	81	7.28	6.81	156
8/29/2003 7:45	20.52	81	7.29	6.81	156.6
8/29/2003 8:00	20.5	80.5	7.25	6.81	156.7
8/29/2003 8:15	20.47	80.7	7.26	6.81	156.8
8/29/2003 8:30	20.43	80.5	7.25	6.79	156.9
8/29/2003 8:45	20.4	79.6	7.18	6.8	157.1
8/29/2003 9:00	20.39	78.4	7.07	6.78	157.5
8/29/2003 9:15	20.37	80.5	7.26	6.8	157.2
8/29/2003 9:30	20.35	80	7.22	6.8	157.6
8/29/2003 9:45	19.83	79.9	7.29	6.8	172.6
8/29/2003 10:00	19.55	80	7.34	6.81	173.2
8/29/2003 10:15	19.67	88.8	8.12	6.99	176.8
8/29/2003 10:30	19.82	89.6	8.17	7.01	176.8
8/29/2003 10:45	19.95	89.5	8.14	7.01	176.8
8/29/2003 11:00	20.02	102.8	9.34	7.12	0.3
8/29/2003 11:15	20.02	102.7	9.34	7.26	0.4
8/29/2003 11:30	20.11	103.5	9.39	7.26	0.1
8/29/2003 11:45	20.66	104.8	9.4	7.26	0.3
8/29/2003 12:00	21.05	103.1	9.18	7.28	0
8/29/2003 12:15	21.16	105.8	9.4	7.33	0.1
8/29/2003 12:30	21.21	105.9	9.4	7.31	0.1
8/29/2003 12:45	22.77	97.1	8.37	7.75	9.3
8/29/2003 13:00	22.82	99.2	8.54	6.7	0

DataSonde4a 37793

Log File Name: bfc082003.4

Site: Lamprey River ~ 200 feet downstream from Wadleigh Falls

Water Depth (max) ~ 1.5 feet

Water Depth (at DataSonde location) ~ 1.5 feet

DataSonde Depth ~ 0.5 feet

blue = deployment/retrieval times

Date/Time	Temp °C	DO% Sat	DO mg/l	pH Units	SpCond uS/cm
8/25/2003 11:00	23.3	103.1	8.8	8.13	0.4
8/25/2003 11:15	23.9	102.4	8.6	7.73	0.3
8/25/2003 11:30	24.3	102.4	8.6	7.71	0.1
8/25/2003 11:45	24.5	102.3	8.5	7.52	0.1
8/25/2003 12:00	24.6	102.3	8.5	7.67	0.2
8/25/2003 12:15	20.2	88.5	8.0	7.03	149.4
8/25/2003 12:30	21.1	88.5	7.9	6.91	147.5
8/25/2003 12:45	21.2	89.1	7.9	6.94	147.7
8/25/2003 13:00	21.3	89.2	7.9	6.95	147.7
8/25/2003 13:15	19.7	105.3	9.6	6.87	0.1
8/25/2003 13:30	27.8	99.2	7.8	7.87	249
8/25/2003 13:45	27.3	96.3	7.6	7.83	251
8/25/2003 14:00	27.2	95.7	7.6	7.79	252
8/25/2003 14:15	29.1	95.8	7.4	7.76	244
8/25/2003 14:30	29.8	95.5	7.2	7.74	243
8/25/2003 14:45	30.0	96.6	7.3	7.71	244
8/25/2003 15:00	29.9	97.4	7.4	7.71	245
8/25/2003 15:15	29.9	96.4	7.3	7.70	248
8/25/2003 15:30	22.0	95.9	8.4	7.05	148.7
8/25/2003 15:45	22.1	94.1	8.2	7.00	148.1
8/25/2003 16:00	22.1	93.9	8.2	7.02	148.1
8/25/2003 16:15	22.1	93.7	8.2	7.02	148.0
8/25/2003 16:30	22.2	93.4	8.1	7.03	148.1
8/25/2003 16:45	22.2	93.3	8.1	7.03	148.1
8/25/2003 17:00	22.2	93.2	8.1	7.04	148.1
8/25/2003 17:15	22.2	93.0	8.1	7.04	148.2
8/25/2003 17:30	22.1	93.3	8.1	7.04	148.2
8/25/2003 17:45	22.1	92.9	8.1	7.04	148.2
8/25/2003 18:00	22.1	92.7	8.1	7.03	148.2
8/25/2003 18:15	22.1	92.5	8.1	7.03	148.2
8/25/2003 18:30	22.0	92.3	8.1	7.03	148.2
8/25/2003 18:45	22.0	92.5	8.1	7.03	148.1
8/25/2003 19:00	21.9	92.0	8.1	7.02	148.2
8/25/2003 19:15	21.9	92.1	8.1	7.03	148.3
8/25/2003 19:30	21.8	91.8	8.1	7.03	148.1
8/25/2003 19:45	21.8	91.5	8.0	7.02	148.2
8/25/2003 20:00	21.8	91.4	8.0	7.02	148.4
8/25/2003 20:15	21.7	91.5	8.0	7.02	148.2
8/25/2003 20:30	21.7	91.4	8.0	7.02	148.4
8/25/2003 20:45	21.7	91.5	8.1	7.01	148.4
8/25/2003 21:00	21.6	91.3	8.0	7.01	148.5

8/25/2003 21:15	21.6	91.1	8.0	7.01	148.4
8/25/2003 21:30	21.5	91.0	8.0	7.01	148.5
8/25/2003 21:45	21.5	91.1	8.0	7.01	148.5
8/25/2003 22:00	21.5	90.7	8.0	7.00	148.5
8/25/2003 22:15	21.4	90.5	8.0	7.00	148.5
8/25/2003 22:30	21.4	90.4	8.0	6.99	148.5
8/25/2003 22:45	21.4	90.5	8.0	6.99	148.7
8/25/2003 23:00	21.3	90.4	8.0	6.99	148.7
8/25/2003 23:15	21.3	90.6	8.0	6.99	148.7
8/25/2003 23:30	21.2	90.4	8.0	6.98	148.5
8/25/2003 23:45	21.2	90.3	8.0	6.98	148.8
8/26/2003 0:00	21.2	90.0	8.0	6.98	148.8
8/26/2003 0:15	21.1	89.9	8.0	6.97	148.9
8/26/2003 0:30	21.1	89.8	8.0	6.96	148.9
8/26/2003 0:45	21.0	89.4	8.0	6.96	149.0
8/26/2003 1:00	21.0	89.4	8.0	6.96	149.2
8/26/2003 1:15	20.9	89.0	8.0	6.96	149.3
8/26/2003 1:30	20.8	89.3	8.0	6.95	149.1
8/26/2003 1:45	20.8	89.0	8.0	6.95	149.1
8/26/2003 2:00	20.7	88.9	8.0	6.94	149.3
8/26/2003 2:15	20.6	88.7	8.0	6.94	149.3
8/26/2003 2:30	20.6	88.5	8.0	6.93	149.3
8/26/2003 2:45	20.5	88.5	8.0	6.93	149.2
8/26/2003 3:00	20.4	88.6	8.0	6.93	149.1
8/26/2003 3:15	20.4	88.3	8.0	6.93	149.5
8/26/2003 3:30	20.3	88.2	8.0	6.92	149.4
8/26/2003 3:45	20.3	87.8	7.9	6.92	149.5
8/26/2003 4:00	20.2	88.2	8.0	6.92	149.5
8/26/2003 4:15	20.2	87.9	8.0	6.92	149.7
8/26/2003 4:30	20.1	87.7	8.0	6.91	149.6
8/26/2003 4:45	20.1	87.9	8.0	6.91	149.5
8/26/2003 5:00	20.0	87.6	8.0	6.91	149.8
8/26/2003 5:15	20.0	87.5	8.0	6.91	150.0
8/26/2003 5:30	20.0	87.5	8.0	6.91	149.9
8/26/2003 5:45	19.9	87.5	8.0	6.90	150.0
8/26/2003 6:00	19.9	87.5	8.0	6.90	149.9
8/26/2003 6:15	19.9	87.4	8.0	6.90	150.0
8/26/2003 6:30	19.9	87.5	8.0	6.90	150.1
8/26/2003 6:45	19.8	87.4	8.0	6.90	150.1
8/26/2003 7:00	19.8	87.8	8.0	6.90	150.1
8/26/2003 7:15	19.8	88.0	8.0	6.91	150.1
8/26/2003 7:30	19.8	88.2	8.1	6.91	150.1
8/26/2003 7:45	19.8	88.0	8.0	6.91	150.2
8/26/2003 8:00	19.8	88.3	8.1	6.91	150.3
8/26/2003 8:15	19.9	88.5	8.1	6.92	150.2
8/26/2003 8:30	19.9	88.7	8.1	6.92	150.4
8/26/2003 8:45	20.0	88.9	8.1	6.93	150.2
8/26/2003 9:00	20.1	89.3	8.1	6.94	150.3
8/26/2003 9:15	20.2	89.8	8.1	6.95	150.2
8/26/2003 9:30	20.4	89.8	8.1	6.96	150.3
8/26/2003 9:45	20.5	90.2	8.1	6.96	150.4
8/26/2003 10:00	20.6	90.4	8.1	6.96	150.6
8/26/2003 10:15	20.8	90.7	8.1	6.97	150.5

8/26/2003 10:30	20.9	91.1	8.1	6.98	150.5
8/26/2003 10:45	21.0	91.1	8.1	6.98	150.6
8/26/2003 11:00	21.2	91.3	8.1	6.99	150.6
8/26/2003 11:15	21.3	91.9	8.1	7.00	150.6
8/26/2003 11:30	21.5	91.8	8.1	7.00	150.8
8/26/2003 11:45	21.6	92.3	8.1	7.01	150.9
8/26/2003 12:00	21.8	92.3	8.1	7.01	151.0
8/26/2003 12:15	21.9	92.1	8.1	7.02	150.8
8/26/2003 12:30	22.1	93.0	8.1	7.02	150.8
8/26/2003 12:45	22.2	93.0	8.1	7.03	150.9
8/26/2003 13:00	22.4	92.8	8.1	7.04	150.8
8/26/2003 13:15	22.5	92.5	8.0	7.04	150.9
8/26/2003 13:30	22.6	93.0	8.0	7.04	150.9
8/26/2003 13:45	22.6	93.0	8.0	7.04	150.9
8/26/2003 14:00	22.7	93.0	8.0	7.05	150.9
8/26/2003 14:15	22.7	93.2	8.0	7.05	150.9
8/26/2003 14:30	22.7	93.2	8.0	7.06	150.9
8/26/2003 14:45	22.8	92.8	8.0	7.06	150.8
8/26/2003 15:00	22.8	92.9	8.0	7.07	150.9
8/26/2003 15:15	22.9	92.8	8.0	7.07	150.8
8/26/2003 15:30	22.9	92.7	8.0	7.07	150.8
8/26/2003 15:45	23.0	93.0	8.0	7.07	150.8
8/26/2003 16:00	23.0	92.6	7.9	7.07	150.7
8/26/2003 16:15	23.1	92.6	7.9	7.07	150.8
8/26/2003 16:30	23.0	92.6	7.9	7.08	150.7
8/26/2003 16:45	23.0	92.2	7.9	7.07	150.7
8/26/2003 17:00	23.0	92.8	8.0	7.07	150.7
8/26/2003 17:15	23.0	92.3	7.9	7.07	150.6
8/26/2003 17:30	23.0	92.2	7.9	7.07	150.4
8/26/2003 17:45	23.0	92.1	7.9	7.07	150.3
8/26/2003 18:00	23.0	91.9	7.9	7.07	150.3
8/26/2003 18:15	22.9	91.7	7.9	7.07	150.4
8/26/2003 18:30	22.9	91.6	7.9	7.06	150.9
8/26/2003 18:45	22.8	91.3	7.9	7.06	150.9
8/26/2003 19:00	22.7	91.2	7.9	7.05	150.9
8/26/2003 19:15	22.7	90.9	7.8	7.05	150.9
8/26/2003 19:30	22.6	90.8	7.8	7.04	151.1
8/26/2003 19:45	22.5	90.7	7.8	7.04	150.8
8/26/2003 20:00	22.5	90.6	7.9	7.04	151.1
8/26/2003 20:15	22.4	90.8	7.9	7.04	150.9
8/26/2003 20:30	22.4	91.0	7.9	7.04	150.9
8/26/2003 20:45	22.3	90.6	7.9	7.03	150.9
8/26/2003 21:00	22.2	90.5	7.9	7.04	151.1
8/26/2003 21:15	22.2	90.3	7.9	7.03	151.0
8/26/2003 21:30	22.2	90.5	7.9	7.03	151.1
8/26/2003 21:45	22.1	89.8	7.8	7.03	151.3
8/26/2003 22:00	22.1	90.6	7.9	7.03	151.0
8/26/2003 22:15	22.0	89.9	7.9	7.02	151.2
8/26/2003 22:30	22.0	90.0	7.9	7.03	151.1
8/26/2003 22:45	22.0	89.9	7.9	7.02	151.2
8/26/2003 23:00	21.9	90.0	7.9	7.02	151.2
8/26/2003 23:15	21.9	89.8	7.9	7.02	151.2
8/26/2003 23:30	21.9	90.1	7.9	7.02	151.3

8/26/2003 23:45	21.9	89.3	7.8	7.02	151.5
8/27/2003 0:00	21.8	89.6	7.9	7.01	151.4
8/27/2003 0:15	21.8	89.1	7.8	7.01	151.4
8/27/2003 0:30	21.8	89.3	7.8	7.01	151.4
8/27/2003 0:45	21.7	89.0	7.8	7.00	151.5
8/27/2003 1:00	21.7	89.2	7.8	7.00	151.5
8/27/2003 1:15	21.7	88.7	7.8	6.99	151.6
8/27/2003 1:30	21.6	88.9	7.8	6.99	151.7
8/27/2003 1:45	21.6	88.7	7.8	6.99	151.8
8/27/2003 2:00	21.5	88.5	7.8	6.99	152.0
8/27/2003 2:15	21.5	88.5	7.8	6.98	151.8
8/27/2003 2:30	21.4	88.0	7.8	6.98	151.8
8/27/2003 2:45	21.4	87.9	7.8	6.97	152.0
8/27/2003 3:00	21.3	87.7	7.8	6.97	152.0
8/27/2003 3:15	21.3	87.7	7.8	6.96	152.1
8/27/2003 3:30	21.2	87.6	7.8	6.96	152.2
8/27/2003 3:45	21.2	87.5	7.8	6.96	151.9
8/27/2003 4:00	21.1	87.4	7.8	6.96	152.1
8/27/2003 4:15	21.1	86.8	7.7	6.95	151.8
8/27/2003 4:30	21.0	87.0	7.8	6.95	151.8
8/27/2003 4:45	21.0	86.9	7.8	6.94	151.9
8/27/2003 5:00	20.9	87.0	7.8	6.94	152.0
8/27/2003 5:15	20.9	86.5	7.7	6.94	151.7
8/27/2003 5:30	20.8	86.4	7.7	6.94	151.6
8/27/2003 5:45	20.8	86.8	7.8	6.93	151.7
8/27/2003 6:00	20.7	86.4	7.7	6.93	151.7
8/27/2003 6:15	20.7	86.7	7.8	6.93	151.4
8/27/2003 6:30	20.7	86.8	7.8	6.93	151.5
8/27/2003 6:45	20.6	86.8	7.8	6.93	151.3
8/27/2003 7:00	20.6	87.3	7.8	6.93	151.2
8/27/2003 7:15	20.6	86.7	7.8	6.93	151.1
8/27/2003 7:30	20.6	87.3	7.8	6.93	151.1
8/27/2003 7:45	20.6	87.5	7.9	6.94	151.1
8/27/2003 8:00	20.6	87.7	7.9	6.94	150.9
8/27/2003 8:15	20.7	87.6	7.9	6.94	150.8
8/27/2003 8:30	20.7	88.0	7.9	6.95	151.0
8/27/2003 8:45	20.8	88.4	7.9	6.95	150.9
8/27/2003 9:00	20.9	88.4	7.9	6.95	150.8
8/27/2003 9:15	21.0	88.6	7.9	6.96	150.7
8/27/2003 9:30	21.1	89.1	7.9	6.97	150.8
8/27/2003 9:45	21.3	89.7	8.0	6.98	150.8
8/27/2003 10:00	21.5	89.6	7.9	6.98	150.7
8/27/2003 10:15	21.6	89.9	7.9	6.98	150.8
8/27/2003 10:30	21.7	90.6	8.0	6.99	150.8
8/27/2003 10:45	21.9	90.9	8.0	7.00	150.8
8/27/2003 11:00	22.0	91.0	8.0	7.01	150.8
8/27/2003 11:15	22.1	91.3	8.0	7.01	150.9
8/27/2003 11:30	22.2	91.6	8.0	7.02	150.9
8/27/2003 11:45	22.4	92.0	8.0	7.03	150.9
8/27/2003 12:00	22.5	92.3	8.0	7.03	150.9
8/27/2003 12:15	22.7	92.4	8.0	7.04	150.9
8/27/2003 12:30	22.8	92.7	8.0	7.05	151.0
8/27/2003 12:45	22.9	92.6	8.0	7.05	150.9

8/27/2003 13:00	23.0	92.7	8.0	7.06	151.0
8/27/2003 13:15	23.1	92.9	8.0	7.07	151.0
8/27/2003 13:30	23.3	92.7	7.9	7.07	151.1
8/27/2003 13:45	23.4	92.7	7.9	7.07	151.2
8/27/2003 14:00	23.4	92.7	7.9	7.07	151.2
8/27/2003 14:15	23.5	92.8	7.9	7.08	151.2
8/27/2003 14:30	23.6	93.5	7.9	7.09	151.2
8/27/2003 14:45	23.5	92.6	7.9	7.08	151.4
8/27/2003 15:00	23.6	92.9	7.9	7.09	151.2
8/27/2003 15:15	23.6	93.2	7.9	7.09	151.3
8/27/2003 15:30	23.6	92.6	7.9	7.09	151.5
8/27/2003 15:45	23.6	93.1	7.9	7.09	151.4
8/27/2003 16:00	23.6	92.3	7.8	7.08	151.4
8/27/2003 16:15	23.6	92.4	7.8	7.09	151.5
8/27/2003 16:30	23.6	92.6	7.9	7.09	151.4
8/27/2003 16:45	23.7	92.3	7.8	7.10	151.5
8/27/2003 17:00	23.6	92.4	7.8	7.09	151.7
8/27/2003 17:15	23.6	92.3	7.8	7.09	151.4
8/27/2003 17:30	23.6	92.0	7.8	7.09	151.5
8/27/2003 17:45	23.6	91.5	7.8	7.09	151.6
8/27/2003 18:00	23.6	91.7	7.8	7.08	151.6
8/27/2003 18:15	23.6	91.2	7.7	7.07	151.7
8/27/2003 18:30	23.5	90.7	7.7	7.07	151.6
8/27/2003 18:45	23.5	90.9	7.7	7.07	151.7
8/27/2003 19:00	23.5	90.4	7.7	7.06	151.8
8/27/2003 19:15	23.5	90.0	7.7	7.05	151.7
8/27/2003 19:30	23.4	89.6	7.6	7.05	151.9
8/27/2003 19:45	23.4	89.9	7.7	7.04	151.9
8/27/2003 20:00	23.3	89.9	7.7	7.04	151.9
8/27/2003 20:15	23.3	89.9	7.7	7.04	151.9
8/27/2003 20:30	23.3	90.0	7.7	7.04	152.0
8/27/2003 20:45	23.2	89.6	7.7	7.03	152.0
8/27/2003 21:00	23.2	89.8	7.7	7.04	151.9
8/27/2003 21:15	23.1	89.5	7.7	7.04	152.1
8/27/2003 21:30	23.1	89.5	7.7	7.04	152.0
8/27/2003 21:45	23.0	89.8	7.7	7.04	151.9
8/27/2003 22:00	23.0	89.8	7.7	7.04	152.0
8/27/2003 22:15	22.9	89.6	7.7	7.04	152.0
8/27/2003 22:30	22.9	89.4	7.7	7.04	151.9
8/27/2003 22:45	22.8	89.8	7.7	7.03	152.0
8/27/2003 23:00	22.7	89.3	7.7	7.03	151.9
8/27/2003 23:15	22.7	89.8	7.8	7.03	152.0
8/27/2003 23:30	22.6	89.8	7.8	7.03	152.1
8/27/2003 23:45	22.6	89.7	7.8	7.03	152.1
8/28/2003 0:00	22.5	89.3	7.7	7.02	152.2
8/28/2003 0:15	22.4	89.2	7.7	7.02	152.3
8/28/2003 0:30	22.4	89.2	7.7	7.02	152.2
8/28/2003 0:45	22.3	89.6	7.8	7.02	152.2
8/28/2003 1:00	22.3	89.2	7.8	7.02	152.2
8/28/2003 1:15	22.2	89.0	7.8	7.02	152.3
8/28/2003 1:30	22.2	89.5	7.8	7.02	152.3
8/28/2003 1:45	22.1	88.8	7.7	7.02	152.4
8/28/2003 2:00	22.1	89.2	7.8	7.01	152.4

8/28/2003 2:15	22.0	88.7	7.8	7.01	152.5
8/28/2003 2:30	21.9	89.1	7.8	7.01	152.6
8/28/2003 2:45	21.9	88.7	7.8	7.00	152.8
8/28/2003 3:00	21.8	88.6	7.8	7.00	152.7
8/28/2003 3:15	21.8	88.2	7.7	7.00	152.8
8/28/2003 3:30	21.7	87.9	7.7	6.99	152.8
8/28/2003 3:45	21.6	88.0	7.8	6.99	152.9
8/28/2003 4:00	21.5	87.9	7.8	6.99	153.1
8/28/2003 4:15	21.5	87.8	7.8	6.98	153.1
8/28/2003 4:30	21.4	87.6	7.8	6.98	153.2
8/28/2003 4:45	21.3	87.7	7.8	6.98	153.3
8/28/2003 5:00	21.3	87.5	7.8	6.98	153.4
8/28/2003 5:15	21.2	87.1	7.7	6.97	153.5
8/28/2003 5:30	21.1	87.5	7.8	6.97	153.7
8/28/2003 5:45	21.0	86.6	7.7	6.96	153.7
8/28/2003 6:00	20.9	87.1	7.8	6.96	153.9
8/28/2003 6:15	20.9	87.0	7.8	6.96	154.0
8/28/2003 6:30	20.8	86.1	7.7	6.96	154.0
8/28/2003 6:45	20.7	87.0	7.8	6.96	154.1
8/28/2003 7:00	20.7	86.8	7.8	6.96	154.0
8/28/2003 7:15	20.6	87.3	7.8	6.96	154.2
8/28/2003 7:30	20.6	87.0	7.8	6.96	154.2
8/28/2003 7:45	20.5	87.5	7.9	6.96	154.5
8/28/2003 8:00	20.5	87.5	7.9	6.97	154.3
8/28/2003 8:15	20.5	88.0	7.9	6.97	154.3
8/28/2003 8:30	20.5	88.3	7.9	6.97	154.5
8/28/2003 8:45	20.5	88.5	8.0	6.98	154.5
8/28/2003 9:00	20.6	89.1	8.0	6.98	154.5
8/28/2003 9:15	20.6	89.1	8.0	6.99	154.6
8/28/2003 9:30	20.7	89.5	8.0	7.00	154.7
8/28/2003 9:45	20.8	90.0	8.1	7.01	154.8
8/28/2003 10:00	20.9	90.9	8.1	7.02	154.7
8/28/2003 10:15	21.0	91.4	8.2	7.03	154.8
8/28/2003 10:30	21.1	91.3	8.1	7.04	154.7
8/28/2003 10:45	21.1	91.8	8.2	7.04	154.9
8/28/2003 11:00	21.2	92.4	8.2	7.05	154.8
8/28/2003 11:15	21.3	92.3	8.2	7.06	155.0
8/28/2003 11:30	21.3	92.7	8.2	7.07	154.7
8/28/2003 11:45	21.4	93.0	8.2	7.08	155.0
8/28/2003 12:00	21.5	93.4	8.3	7.08	155.1
8/28/2003 12:15	21.5	93.4	8.2	7.09	154.9
8/28/2003 12:30	21.6	93.7	8.3	7.09	154.8
8/28/2003 12:45	21.7	93.7	8.2	7.10	155.0
8/28/2003 13:00	21.7	94.2	8.3	7.11	154.8
8/28/2003 13:15	21.8	94.3	8.3	7.12	155.0
8/28/2003 13:30	21.8	94.2	8.3	7.12	154.9
8/28/2003 13:45	21.8	94.3	8.3	7.12	154.9
8/28/2003 14:00	21.9	94.1	8.2	7.13	154.9
8/28/2003 14:15	21.9	94.3	8.3	7.13	155.0
8/28/2003 14:30	22.0	94.4	8.3	7.14	155.0
8/28/2003 14:45	22.0	94.4	8.3	7.13	155.0
8/28/2003 15:00	22.1	94.0	8.2	7.14	155.1
8/28/2003 15:15	22.1	93.9	8.2	7.13	155.1

8/28/2003 15:30	22.1	94.2	8.2	7.14	155.2
8/28/2003 15:45	22.1	93.6	8.2	7.14	155.2
8/28/2003 16:00	22.1	93.7	8.2	7.14	155.2
8/28/2003 16:15	22.1	93.6	8.2	7.14	155.3
8/28/2003 16:30	22.1	93.2	8.1	7.14	155.3
8/28/2003 16:45	22.1	93.1	8.1	7.13	155.3
8/28/2003 17:00	22.1	93.0	8.1	7.13	155.3
8/28/2003 17:15	22.0	92.8	8.1	7.13	155.3
8/28/2003 17:30	22.0	92.8	8.1	7.13	155.5
8/28/2003 17:45	22.0	92.5	8.1	7.13	155.5
8/28/2003 18:00	22.0	92.4	8.1	7.12	155.5
8/28/2003 18:15	22.0	91.9	8.0	7.12	155.5
8/28/2003 18:30	21.9	91.6	8.0	7.11	155.5
8/28/2003 18:45	21.9	91.2	8.0	7.11	155.7
8/28/2003 19:00	21.8	91.2	8.0	7.11	155.7
8/28/2003 19:15	21.8	90.7	8.0	7.10	155.6
8/28/2003 19:30	21.7	90.6	8.0	7.10	155.6
8/28/2003 19:45	21.7	90.4	8.0	7.09	155.6
8/28/2003 20:00	21.6	90.4	8.0	7.09	155.7
8/28/2003 20:15	21.6	89.9	7.9	7.08	155.8
8/28/2003 20:30	21.5	90.2	8.0	7.08	155.6
8/28/2003 20:45	21.4	89.7	7.9	7.07	155.7
8/28/2003 21:00	21.4	89.8	8.0	7.07	155.6
8/28/2003 21:15	21.3	90.0	8.0	7.06	155.6
8/28/2003 21:30	21.3	89.8	8.0	7.06	155.6
8/28/2003 21:45	21.2	89.9	8.0	7.07	155.5
8/28/2003 22:00	21.2	89.6	8.0	7.06	155.5
8/28/2003 22:15	21.1	89.6	8.0	7.06	155.4
8/28/2003 22:30	21.0	89.5	8.0	7.06	155.5
8/28/2003 22:45	21.0	89.6	8.0	7.06	155.6
8/28/2003 23:00	21.0	90.0	8.0	7.06	155.5
8/28/2003 23:15	20.9	89.7	8.0	7.06	155.5
8/28/2003 23:30	20.8	89.4	8.0	7.05	155.5
8/28/2003 23:45	20.8	89.6	8.0	7.05	155.5
8/29/2003 0:00	20.8	89.3	8.0	7.05	155.6
8/29/2003 0:15	20.7	89.7	8.0	7.05	155.5
8/29/2003 0:30	20.7	89.5	8.0	7.05	155.4
8/29/2003 0:45	20.6	89.7	8.1	7.05	155.5
8/29/2003 1:00	20.6	89.9	8.1	7.05	155.6
8/29/2003 1:15	20.5	89.3	8.0	7.05	155.5
8/29/2003 1:30	20.5	89.7	8.1	7.04	155.4
8/29/2003 1:45	20.4	89.6	8.1	7.04	155.5
8/29/2003 2:00	20.4	89.6	8.1	7.04	155.5
8/29/2003 2:15	20.3	89.2	8.1	7.04	155.5
8/29/2003 2:30	20.3	89.3	8.1	7.04	155.4
8/29/2003 2:45	20.2	89.3	8.1	7.04	155.5
8/29/2003 3:00	20.1	89.3	8.1	7.04	155.3
8/29/2003 3:15	20.1	89.4	8.1	7.04	155.5
8/29/2003 3:30	20.0	89.6	8.1	7.04	155.5
8/29/2003 3:45	20.0	89.1	8.1	7.04	155.6
8/29/2003 4:00	19.9	89.4	8.1	7.04	155.4
8/29/2003 4:15	19.9	89.1	8.1	7.04	155.5
8/29/2003 4:30	19.8	89.4	8.2	7.03	155.6

8/29/2003 4:45	19.8	89.2	8.2	7.03	155.5
8/29/2003 5:00	19.7	89.2	8.2	7.03	155.6
8/29/2003 5:15	19.6	88.8	8.1	7.03	155.6
8/29/2003 5:30	19.6	88.6	8.1	7.03	155.7
8/29/2003 5:45	19.5	89.1	8.2	7.02	155.6
8/29/2003 6:00	19.5	88.8	8.2	7.02	155.7
8/29/2003 6:15	19.4	88.9	8.2	7.02	155.9
8/29/2003 6:30	19.3	88.8	8.2	7.02	155.8
8/29/2003 6:45	19.3	88.6	8.2	7.02	155.8
8/29/2003 7:00	19.2	88.7	8.2	7.01	156.0
8/29/2003 7:15	19.2	88.6	8.2	7.01	155.8
8/29/2003 7:30	19.1	88.5	8.2	7.02	155.9
8/29/2003 7:45	19.1	89.0	8.2	7.02	155.8
8/29/2003 8:00	19.1	89.2	8.3	7.02	155.9
8/29/2003 8:15	19.1	89.4	8.3	7.03	156.0
8/29/2003 8:30	19.1	90.0	8.3	7.03	155.8
8/29/2003 8:45	19.1	89.9	8.3	7.03	155.8
8/29/2003 9:00	19.2	90.0	8.3	7.04	156.1
8/29/2003 9:15	19.2	90.3	8.3	7.04	156.1
8/29/2003 9:30	19.3	90.7	8.4	7.05	156.0
8/29/2003 9:45	19.4	91.3	8.4	7.06	156.1
8/29/2003 10:00	19.5	88.9	8.2	7.07	157.0
8/29/2003 10:15	19.7	84.0	7.7	6.99	155.9
8/29/2003 10:30	19.8	84.6	7.7	7.00	155.9
8/29/2003 10:45	19.9	83.7	7.6	7.00	155.8
8/29/2003 11:00	18.5	101.5	9.5	7.08	0.2
8/29/2003 11:15	20.1	91.3	8.3	7.24	158.1
8/29/2003 11:30	20.4	91.7	8.3	7.26	157.9
8/29/2003 11:45	20.9	91.4	8.2	7.26	157.3
8/29/2003 12:00	21.1	99.0	8.8	7.22	0.1
8/29/2003 12:15	21.4	100.3	8.9	7.22	0
8/29/2003 12:30	21.6	100.7	8.9	7.20	0
8/29/2003 12:45	23.4	95.8	8.2	6.49	4.1
8/29/2003 13:00	23.2	91.7	7.8	6.27	0